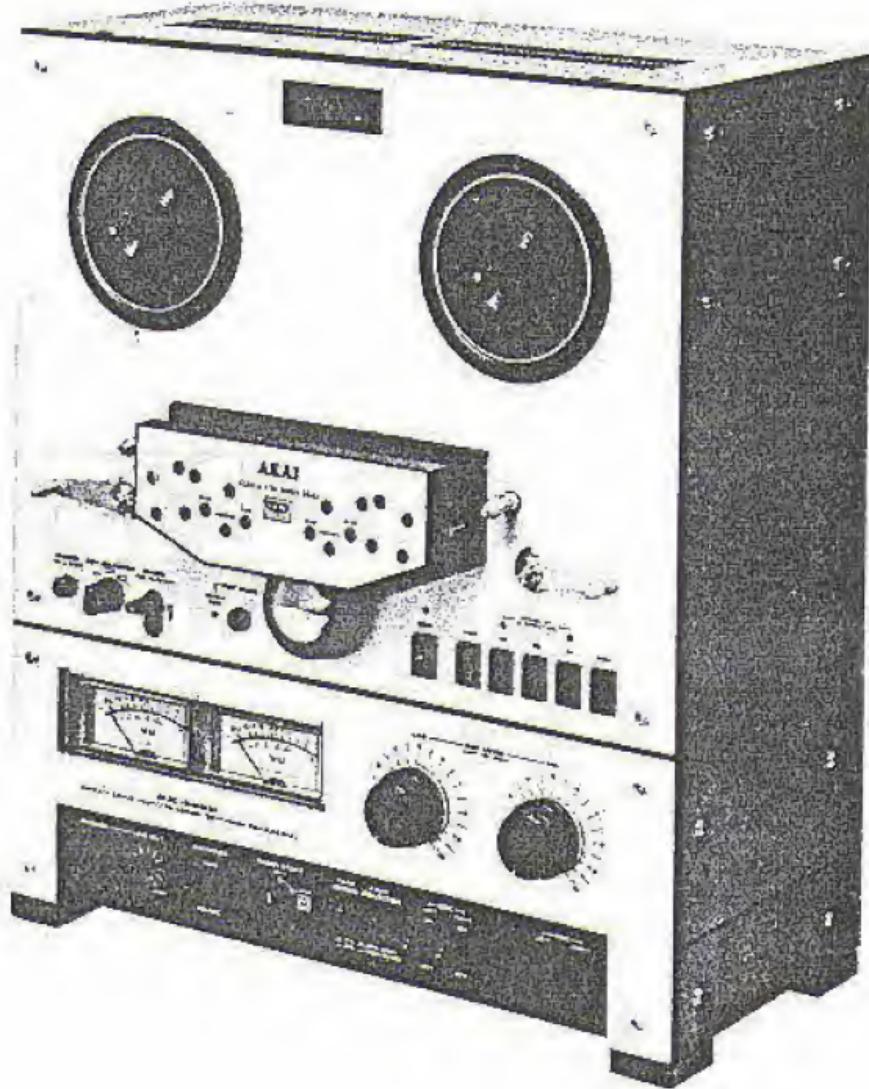


SERVICE MANUAL

PARTS LIST

MODEL **GX-266D**

AKAI



AKAI STEREO TAPE DECK

MODEL **GX-266D**

SECTION 1 SERVICE MANUAL

SECTION 2 PARTS LIST

I. TECHNICAL DATA

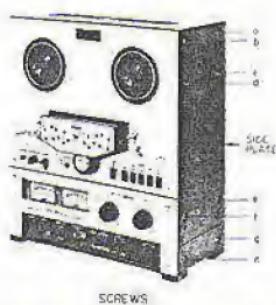
| | |
|------------------------------|--|
| TRACK SYSTEM | 4 track 2 channel stereo/multichannel system |
| REEL CAPACITY | Up to 7" reel |
| TAPE SPEED | 7-1/2 and 3-3/4 ips. ($\pm 0.5\%$) |
| WOW & FLUTTER | Less than 0.06% at 7-1/2 ips. Less than 0.09% at 3-3/4 ips. |
| FREQUENCY RESPONSE | 30 to 25,000 Hz ± 3 dB at 7-1/2 ips. using LN tape 30 to 19,000 Hz ± 3 dB at 3-3/4 ips. using LN tape 30 to 26,000 Hz ± 3 dB at 7-1/2 ips. using WR tape 30 to 20,000 Hz ± 3 dB at 3-3/4 ips. using WR tape |
| DISTORTION (1,000 Hz "0" VU) | Less than 0.5% at 7-1/2 ips. Less than 1.0% at 3-3/4 ips. |
| SIGNAL TO NOISE RATIO | Better than 56 dB (Measured via tape with peak recording level of +6 VU) |
| ERASE RATIO | Better than 70 dB |
| BIAS FREQUENCY | 100 kHz |
| HEADS | (6): Two GX Playback Heads, Two GX Recording heads, Two Erase heads |
| MOTORS | (3): One AC Servo Capstan Motor Two Eddy Current Reel Motor |
| E.F & Rewind Time | 90 sec. using 1,200 ft. tape |
| OUTPUT JACKS | Line (2): 0-0.775V (MAX 0 VU) required load impedance: more than 20 k ohms Phone (1): 0-100 mV/8 ohms (MAX 0 VU) Microphone (2): 0.25 mV/2.4 k ohms required microphone impedance: 600 ohms |
| INPUT JACKS | Line (2): 70 mV/100 k ohms |
| SEMICONDUCTORS | Transistors: 61, Diodes: 92 |
| DIMENSIONS | 404 (W) x 470 (H) x 250 (D) mm, (15.9 x 18.5 x 9.8") 440 (W) x 470 (H) x 250 (D) mm : With Wood Side Plate (17.3 x 18.5 x 9.8") |
| WEIGHT | 18.3 kg (40.4 lbs.) 20.6 kg (45.5 lbs.): With Wood Side Plate |
| POWER REQUIREMENTS | 110/120/220/240V, 50/60 Hz Switchable |

* For improvement purposes, specification and design are change without notice.

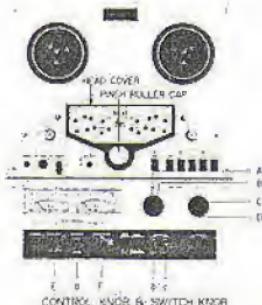
II. DISMANTLING OF UNIT

In case of trouble, etc. necessitating disassembly, please disassemble in the order shown in photographs. Reassemble in reverse order.

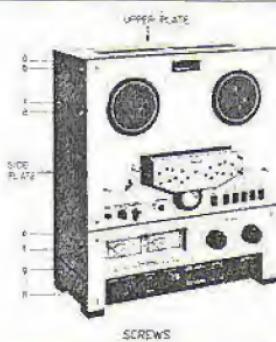
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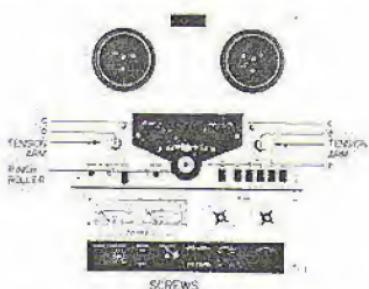
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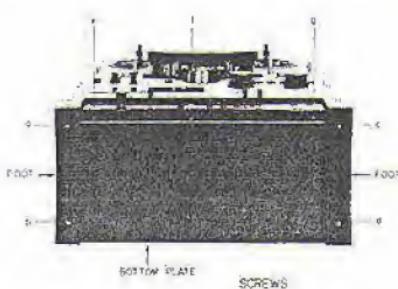
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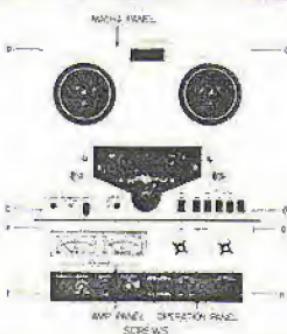
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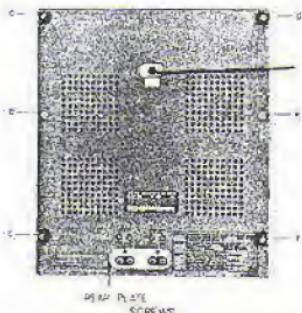
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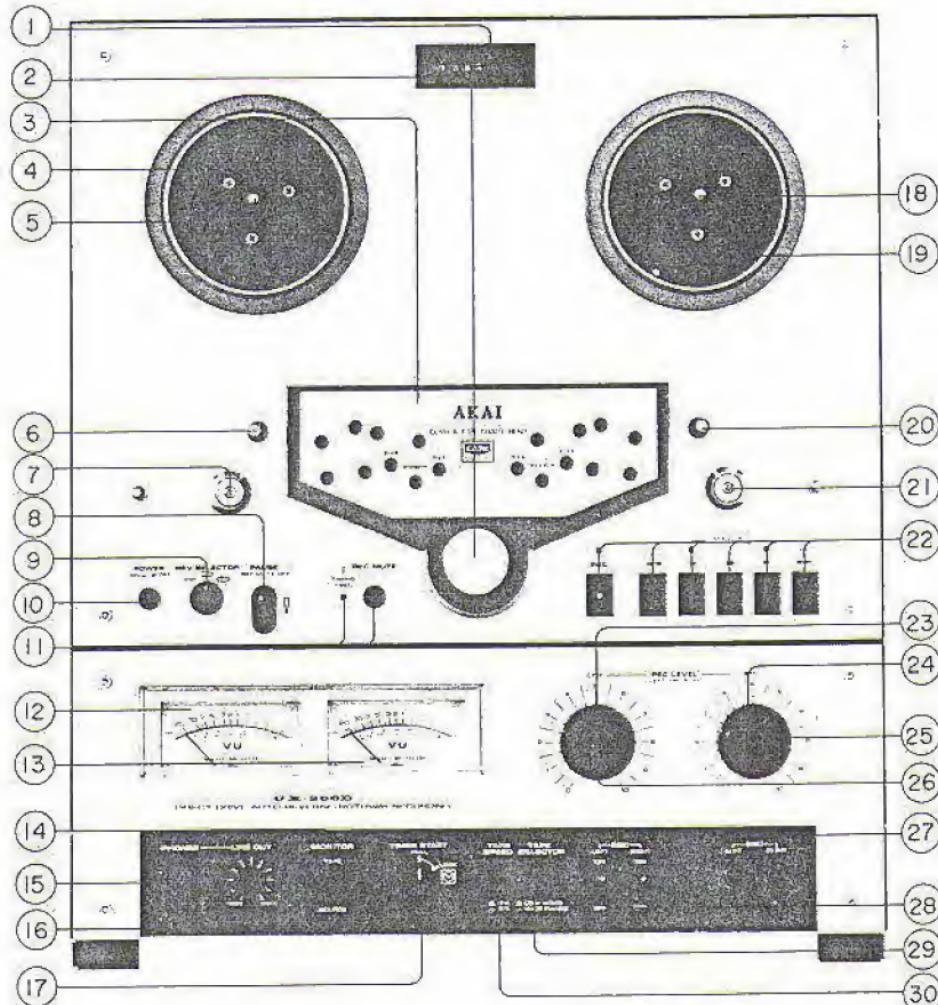
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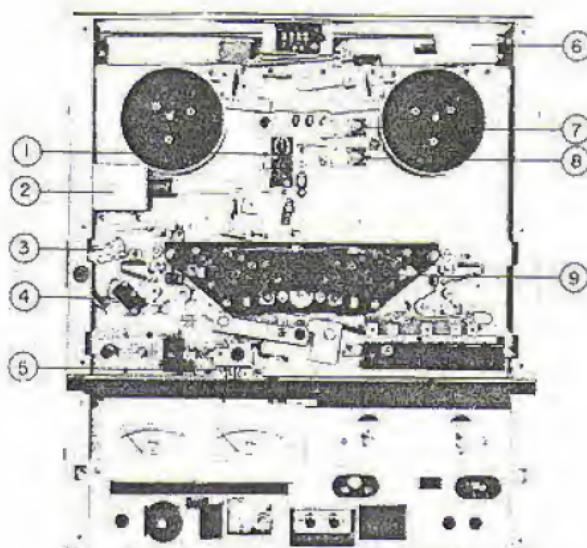
III . CONTROLS



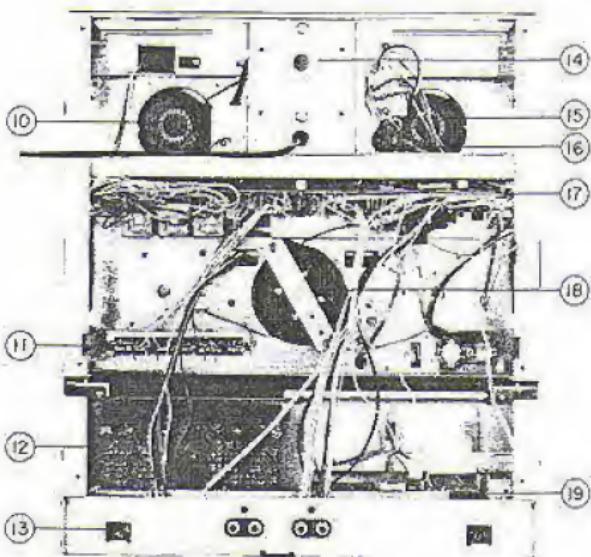
1. INDEX COUNTER AND RESET BUTTON
2. PINCH ROLLER
3. HEAD COVER
4. SUPPLY REEL TABLE
5. REEL RETAINER
6. TAPE GUIDE (SENSING POLE: FORWARD→REVERSE)
7. TENSION ARM
8. PAUSE LEVER (PAUSE)/REC MUTE OFF
9. REVERSE SELECTOR (REV SELECTOR)
10. POWER SWITCH (POWER)
11. RECORDING MUTE SWITCH/TIMING LAMP
12. VU METER (FOR LEFT CHANNEL)
13. VU METER (FOR RIGHT CHANNEL)
14. MONITOR SWITCH (MONITOR)
15. HEADPHONE JACK (PHONES)

16. LINE OUTPUT/HEADPHONE OUTPUT CONTROLS (LINE OUT-PHONES)
17. TIMER START SWITCH (TIMER START)
18. REEL RETAINER
19. TAKE-UP REEL TABLE
20. TAPE GUIDE
21. TENSION ARM (SENSING POLE: REVERSE→FORWARD)
22. OPERATION BUTTONS
23. MEMORY MARKER (FOR LINE-IN)
24. MEMORY MARKER (FOR MIC-IN)
25. MICROPHONE INPUT CONTROLS (REC LEVEL-MIC)
26. LINE INPUT CONTROLS (REC LEVEL-LINE)
27. MICROPHONE JACK (MIC)
28. RECORDING LEVER (REC)
29. TAPE SELECTOR
30. TAPE SPEED SELECTOR

IV. PRINCIPAL PARTS LOCATION



Front View



Rear View

1. PINCH ROLLER MICRO SWITCH SW-905
2. PINCH ROLLER PLUNGER SOLENOID SL-3
3. PAUSE MICRO SWITCH SW-903 & SW-907
4. TENSION MICRO SWITCH SW-904
5. MUTE SWITCH P.C. BOARD NE-2228
6. BRAKE PLUNGER SOLENOID SL-901
7. BRAKE MICRO SWITCH SW-906
8. REEL MOTRO MICRO SWITCH SW-908
9. HEAD BLOCK
10. RIGHT REEL MOTOR 24XO-MR

11. OPERATION P.C. BOARD NE-2239
12. MIC AMP P.C. BOARD NE-5223
13. AMP P.C. BOARD NE-5222
14. POWER TRANSFORMER NET-11
15. LEFT REEL MOTOR 24XO-MR
16. VOLTAGE SELECTOR
17. SYSTEM CONTROL P.C. BOARD NE-1213
18. CAPSTAN MOTOR SCM2-24KJ
19. REV PLUNGER SOLENOID SL-902

V. MECHANISM ADJUSTMENT

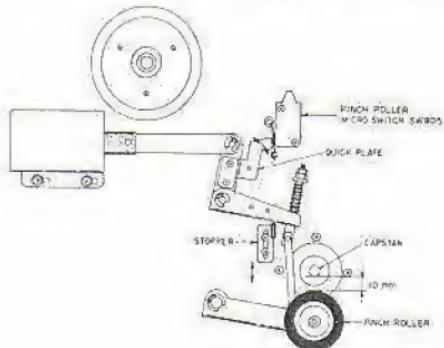


Fig. 1

1. PINCH ROLLER POSITION ADJUSTMENT AT STOP MODE (Refer to Fig. 1)

- 1) Remove head block.
- 2) Adjust Stopper so that the clearance between Pinch Roller and Capstan Shaft is 10mm.

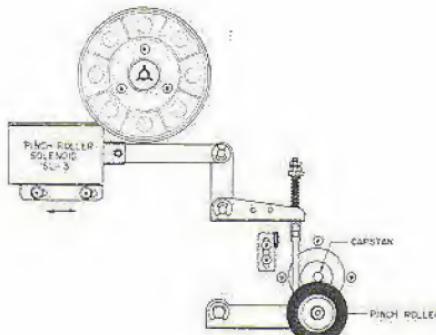


Fig. 2

2. POSITION ADJUSTMENT OF PINCH ROLLER SOLENOID SL-3 (Refer to Fig. 2)

- 1) Remove head block.
- 2) Insert a 4.2 mm gauge (a U type washer etc.) between the P Plunger Lever and P Joint (Refer to Fig. 3).
- 3) Set the deck to playback mode and fix Pinch Roller Solenoid at position at which the pinch Roller begins to rotate.

3. PINCH ROLLER PRESSURE ADJUSTMENT (Refer to Fig. 3)

Adjust Pinch Roller Pressure Adjustment Nut so that pinch roller pressure is 1.2 kg.

4. POSITION ADJUSTMENT OF QUICK PLATE (Refer to Fig. 1)

Adjust Quick Plate position so that at stop mode, the Pinch Roller Microswitch operates properly, and the Quick Plate does not strongly hit against the body of the microswitch.

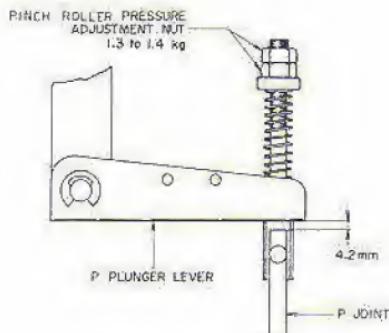


Fig. 3

5. POSITION ADJUSTMENT OF BRAKE SOLENOID SL-1 (Refer to Fig. 4)

Set the deck to playback mode, and fix Brake Solenoid at position at which the left and right brake levers display 180° angle relativity.

6. POSITION ADJUSTMENT OF BRAKE MICROSWITCH SW-906 (Refer to Fig. 4)

Set the deck to playback mode, and adjust Brake Solenoid Microswitch position so that the microswitch operates properly.

7. BRAKE TENSION ADJUSTMENT (Refer to Fig. 4)

Adjust Spring Stopper position so that the brake tension is 350 to 500g.

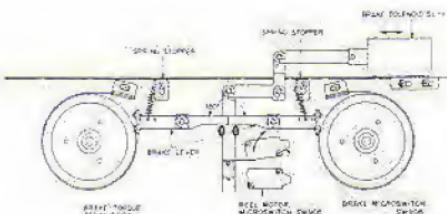


Fig. 4

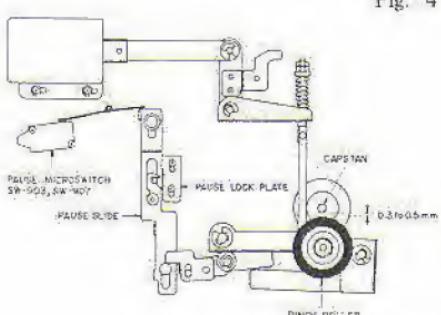


Fig. 5

8. PAUSE ADJUSTMENT (Refer to Fig. 5)

- 1) At playback mode, lock Pause Lever.
- 2) Adjust Pause Lock Plate position to obtain a 0.3 to 0.5 mm clearance between Pinch Roller and Capstan.
- 3) When making this adjustment, be careful that the clearance between Pinch Roller and Capstan does not exceed 0.5 mm.
- 4) Confirm that the Quick Tension Microswitch is pushed when the Pause Lever is depressed and if not, adjust with QT Lever B.

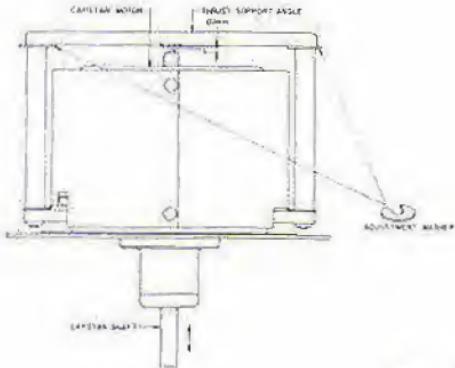


Fig. 6

9. CAPSTAN SHAFT LOOSE PLAY ADJUSTMENT (Refer to Fig. 6)

Adjust to obtain a clearance of $\frac{1}{16}$ " out 0.1 mm between the capstan shaft and thrust support angle.

10. OPERATING POSITION ADJUSTMENT OF TENSION MICROSWITCH SW-904 (Refer to Fig. 7)

Adjust Tension Microswitch position so that when the Tension Arm drops, the microswitch operates perfectly to effect stop mode.

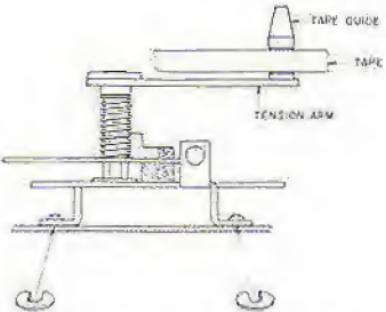


Fig. 8

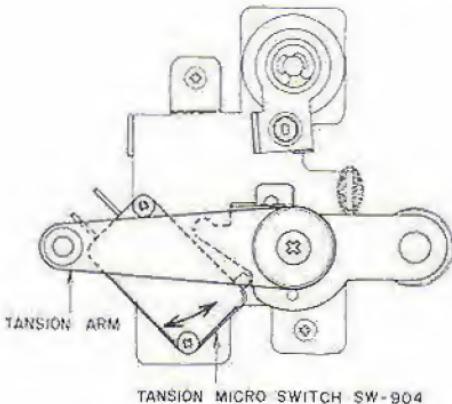


Fig. 7

11. TAPE GUIDE HEIGHT ADJUSTMENT (Refer to Fig. 8)

- 1) Adjust Tape Guide height so that the tape does not curl between tape guides on Head Base.
- 2) In case the tape guide is low, adjust by inserting a U Type Washer on the right side in Fig. 8, and in case it is high, adjust by inserting a washer on the left side.

12. REEL TABLE HEIGHT ADJUSTMENT (Refer to Fig. 9)

- 1) Load a tape and set the deck to F.FWD and REV modes. Adjust Reel Table height so that the tape winds on the center of the reels at both modes.
- 2) Tape should wind on center of reel regardless of type of reel used.

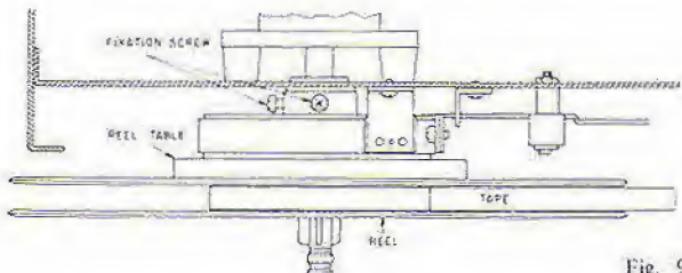


Fig. 9

VI. HEAD ADJUSTMENT

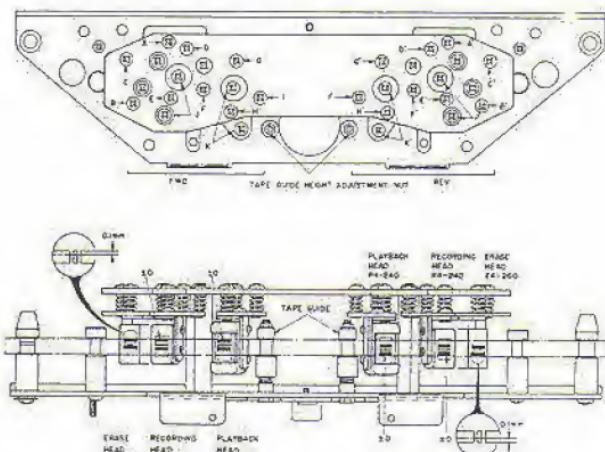


Fig. 10

| Step | Adjustment Item | Test, Tape Supply Signal | Mode | Adjustment Point | Remarks |
|------|--------------------------------------|---|------|----------------------------------|---|
| 1 | Tape Guide Height | Optional | FWD | Tape Guide Height Adjustment Nut | 1) Adjust so that tape travels smoothly and does not twist. 2) Do not thread tape over tension arm. |
| 2 | FWD Erase Head Height | Optional | FWD | (A)(B)(C) | Upper edge of channel 1 head core is 0.1mm higher than upper edge of tape. |
| 3 | FWD Recording Head Height | Optional | FWD | (D)(E)(F) | Upper edges of channel 1 head core and tape are the same height. |
| 4 | FWD Playback Head Height | Optional | FWD | (G)(H)(I) | Upper edges of channel 1 head core and tape are the same height. |
| 5 | FWD Playback Head Azimuth Alignment | 8,000 Hz 3-3/4 ips Test Tape | FWD | (J) | Maximum output, both channels. |
| 6 | FWD Playback Head Gap Alignment | 8,000 Hz 3-3/4 ips Test Tape | FWD | (K) | Adjust head gap surface so that there is no change in output level when tension is applied to the supply reel side. |
| 7 | FWD Recording Head Azimuth Alignment | Scotch #211 Tape, 15,000 Hz -20 dBm | REC | (F) | Maximum output, both channels. |
| 8 | FWD Recording Head Gap Alignment | Scotch #211 Tape, 15,000 Hz -20 dBm | REC | (J) | Adjust head gap surface so that there is no change in output level when tension is applied to the supply reel side. |

Chart 1

NOTES: 1) As perfect head adjustments are vital to tape deck performance, be sure that these adjustments are carried out properly.
 2) Be careful not to use a magnetized driver or other magnetized tools in the vicinity of the heads.
 3) Use only new tape as level variation is likely to occur when using old tape.
 4) Demagnetize heads with head demagnetizer before and after head adjustment.
 5) Set tape speed to 7-1/2 ips except.
 6) Adjustments outlined in Chart 1 are only for FWD side heads. However, adjustments for REV side heads are exactly the same.

VII. ELECTRICAL ADJUSTMENT

1. DC POWER SUPPLY AND TAPE SPEED ADJUSTMENT

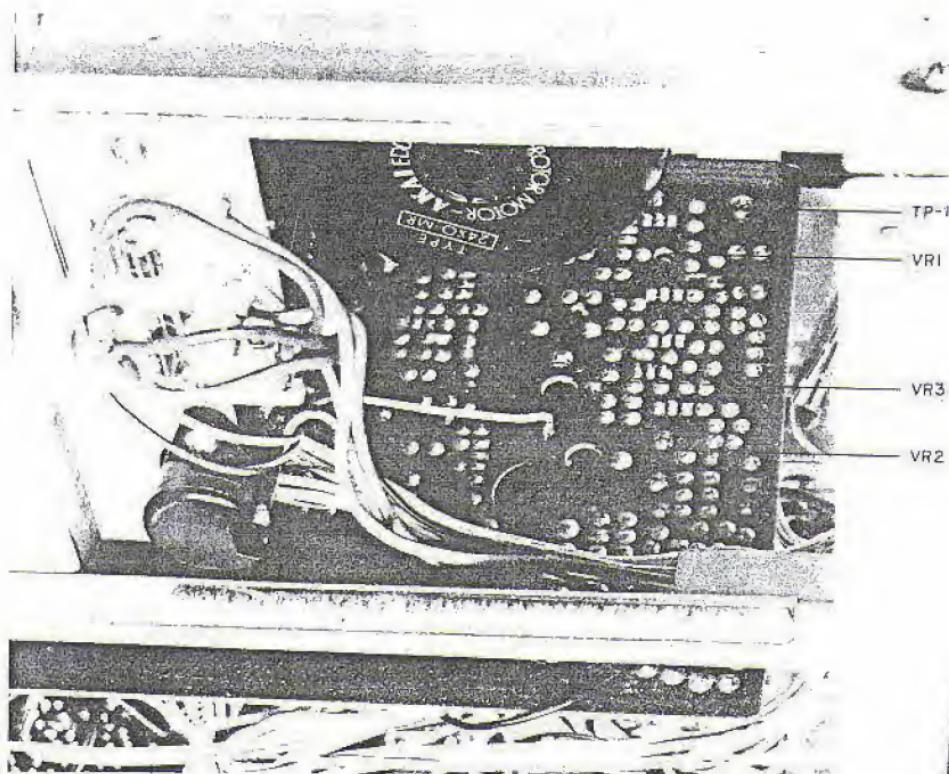


Fig. 11

VR-1 1 kB DC Voltage Adj.
 VR-2 50 kB 3-3/4 ips Tape Speed Adj.
 VR-3 10 kB 7-1/2 ips Tape Speed Adj.

| Step | Adjustment Item | Mode | Adjustment Point | Result | Remarks |
|------|----------------------|------|------------------|-------------------|---|
| 1 | DC Voltage | Stop | VR-1 1 kB | 24.0V | Measured at TP-1 on Sys. Con P.C. Board |
| 2 | 3-3/4 ips Tape Speed | FWD | VR-2 50 kB | 500 Hz ±0.5% | 1,000 Hz, 7-1/2 ips Test Tape. Tape Speed 3-3/4 ips. |
| 3 | 7-1/2 ips Tape Speed | FWD | VR-3 10 kB | 1,000 Hz ±0.5% | 1,000 Hz, 7-1/2 ips Test Tape. Tape Speed 7-1/2 ips. |

2. AMPLIFIER ADJUSTMENT

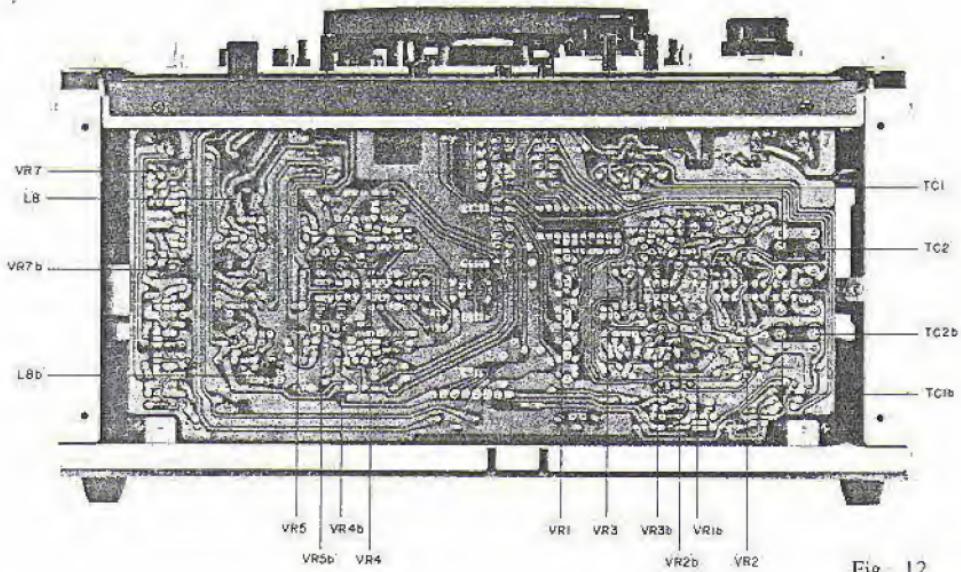


Fig. 12

| | | |
|------|-------|-----------------------------|
| VR-4 | 50 kB | FWD Playback Level Adj. |
| VR-5 | 50 kB | REV Playback Level Adj. |
| VR-7 | 1 kB | VU Meter Sensitivity Adj. |
| VR-1 | 1 kB | Monitor Level Adj. |
| VR-2 | 10 kB | FWD Recording Level Adj. |
| VR-3 | 10 kB | REV Recording Level Adj. |
| TC-2 | 80 PF | FWD Frequency Response Adj. |
| TC-1 | 80 PF | REV Frequency Response Adj. |
| L-8 | 23 mH | BIAS LEAK Adj. |

* The letter "b" following an adjustment part number indicates "RIGHT CHANNEL".

| Step | Adjustment Item | Test Tape Supply Signal | Mode | Adjustment Item | Result | Remarks |
|------|------------------------|---|---------|-----------------|-------------------------|---|
| 1 | FWD Playback Level | 700 Hz 7-1/2 ips 0 VU Test Tape | FWD | VR4 50 kB | 0 ± 0.5 dB (0.775V) | |
| 2 | REV Playback Level | 700 Hz 7-1/2 ips 0 VU Test Tape | REV | VR5 50 kB | 0 ± 0.5 dB (0.775V) | |
| 3 | VU Meter Sensitivity | 700 Hz 7-1/2 ips 0 VU Test Tape | FWD | VR7 1 kB | 0 VU | |
| 4 | Monitor Level | 1,000 Hz -21 dB (70 mV) Signal to Line Input | STOP | VR1 5 kB | 0 dB (0 VU) | Line REC Volume maximum. Monitor Switch "SOURCE". |
| 5 | FWD Recording Level | Scotch #211 Tape 1,000 Hz 0 VU recording | FWD-REC | VR2 10 kB | 0 ± 0.5 dB (0.775V) | Monitor Switch "TAPE". |
| 6 | REV Recording Level | Scotch #211 Tape 1,000 Hz 0 VU recording | REV-REC | VR3 10 kB | 0 ± 0.5 dB (0.775V) | Monitor Switch "TAPE". |
| 7 | FWD Frequency Response | Scotch #211 Tape 1.5 kHz, 15 kHz -20 VU recording | FWD-REC | TC2 80 PF | 1.5 kHz, 15 kHz flat | Tape Speed 3-3/4 ips. Recheck Recording Level. |
| 8 | REV Frequency Response | Scotch #211 Tape 1.5 kHz, 15 kHz -20 VU recording | REV-REC | TC1 80 PF | 1.5 kHz, 15 kHz flat | Tape Speed 3-3/4 ips. Recheck Recording Level. |
| 9 | Bias Leak | | REC | L8 23 mH | Less than -30 dB | Mic, Line Volume at Max. |

Chart 3

NOTES: 1) Set tape speed to 7-1/2 ips except in Steps 7 and 8.
 2) Tape Selector at "LOW NOISE"
 3) Monitor Switch at "TAPE" except in Step 4.
 4) Output Volume at maximum.
 5) New test tape should be used.

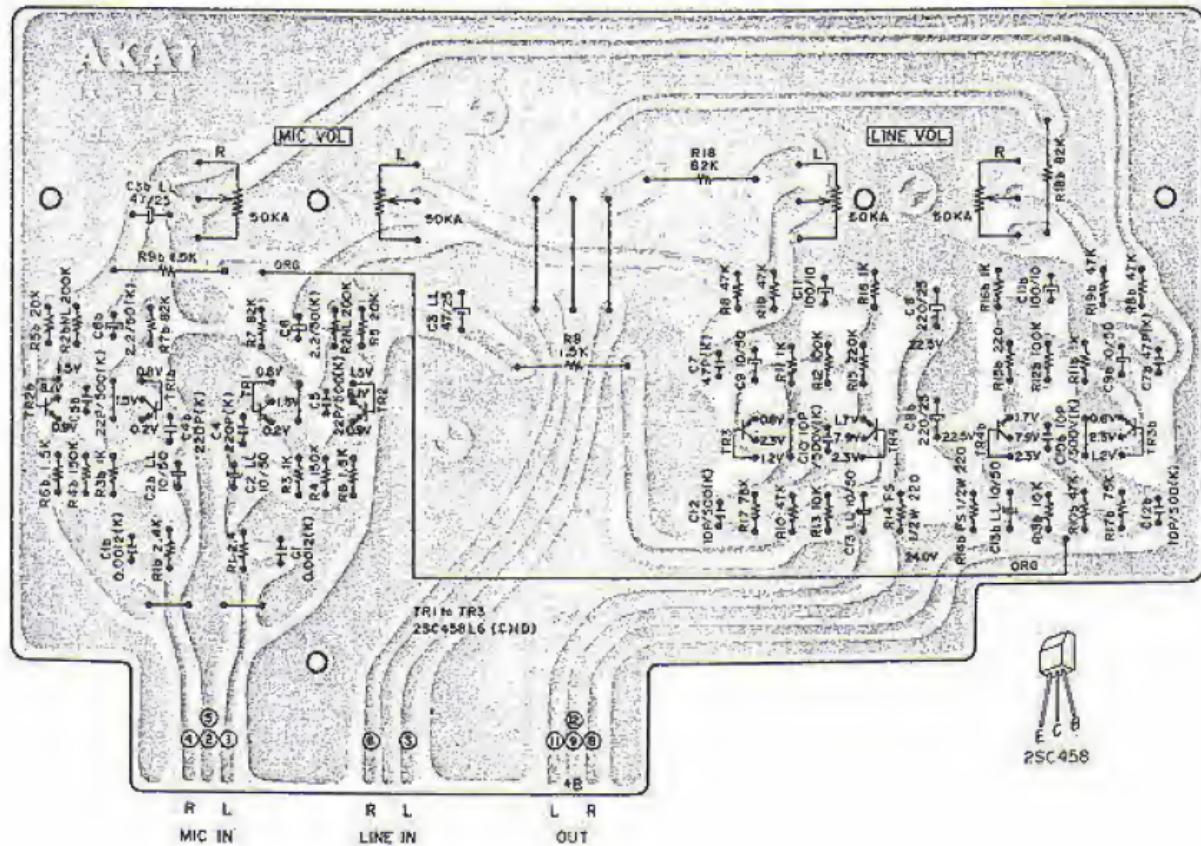
VIII. DC RESISTANCE OF VARIOUS COILS

| Part | Designation | DC Resistance |
|---------------------------------|----------------------|--|
| Main Motor | SCM2-24KJ | Between BLU-RED: 100 ohms Between YLW-GRN: 180 ohms Pick-up Coil: 635 ohms |
| Reel Motor | 24XO-MR | Between BLU-RED: 74 ohms Between YLW-GRN: 1,660 ohms |
| Pinch Roller Solenoid | 1660PTHT3 | 700 ohms |
| Brake Solenoid, REV Solenoid | 1240PHT | 590 ohms |
| Relay | L-24 | 1,600 ohms |
| Relay | MY40-US-AD4 DC24V | 650 ohms |
| Oscillator Coil | 0T-204 | Between 1-3: 0.3 ohms Between 4-6: 0.7 ohms Between 7-9: 8.2 ohms |
| Erase Head | E4-260 | 3.5 ohms |
| Recording Head | R4-240 | 6.2 ohms |
| Playback Head | P4-240 | 220 ohms |

Chart 4

* The resistance values shown in this chart are average values.

3) MIC AMP P.C BOARD NE-5223



SECTION 2

PARTS LIST

TABLE OF CONTENTS

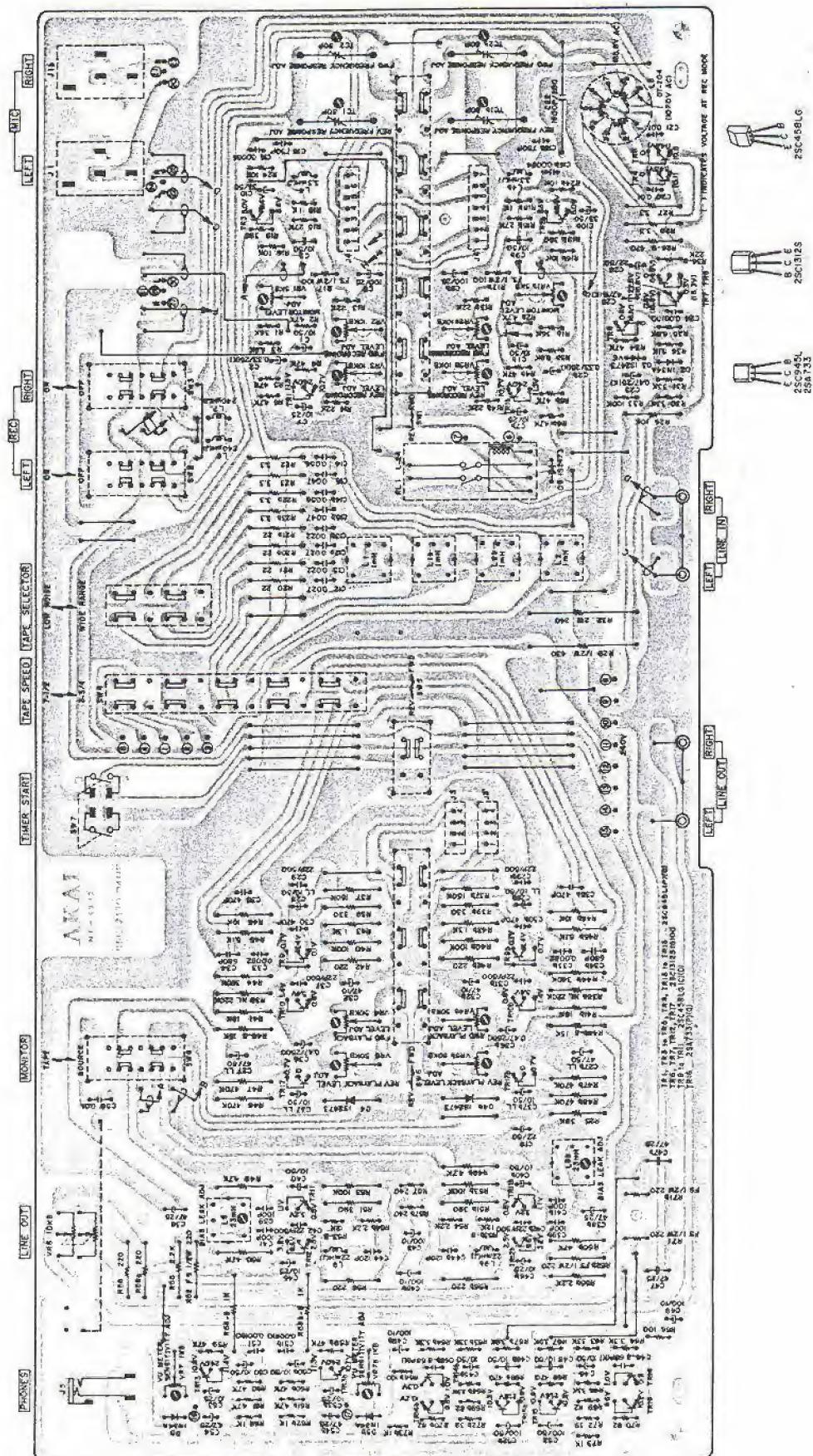
| | |
|--|----|
| 1. HEAD BLOCK | 23 |
| 2. MAIN MOTOR BLOCK | 24 |
| 3. REEL MOTOR/TABLE BLOCK | 25 |
| 4. OPERATION BLOCK | 26 |
| 5. TENSION BLOCK | 27 |
| 6. PINCH ROLLER PLUNGER BLOCK | 29 |
| 7. MECHA ASSEMBLY BLOCK | 31 |
| 8. P.C BOARDS | 32 |
| (1) AMP P.C BOARD (NE-5222) BLOCK | 32 |
| (2) SYS. CON P.C BOARD (NE-1213) BLOCK | 32 |
| (3) MIC AMP P.C BOARD (NE-5223) BLOCK | 33 |
| 9. POWER SUPPLY BLOCK | 35 |
| 10. AMP ASSEMBLY BLOCK | 37 |
| 11. FINAL ASSEMBLY BLOCK | 38 |
| 12. LIST OF INTERCHANGEABLE SEMICONDUCTORS | 39 |
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Resistor and Capacitor which is not listed in this parts list, please refer to
COMMON LIST FOR SERVICE PARTS.

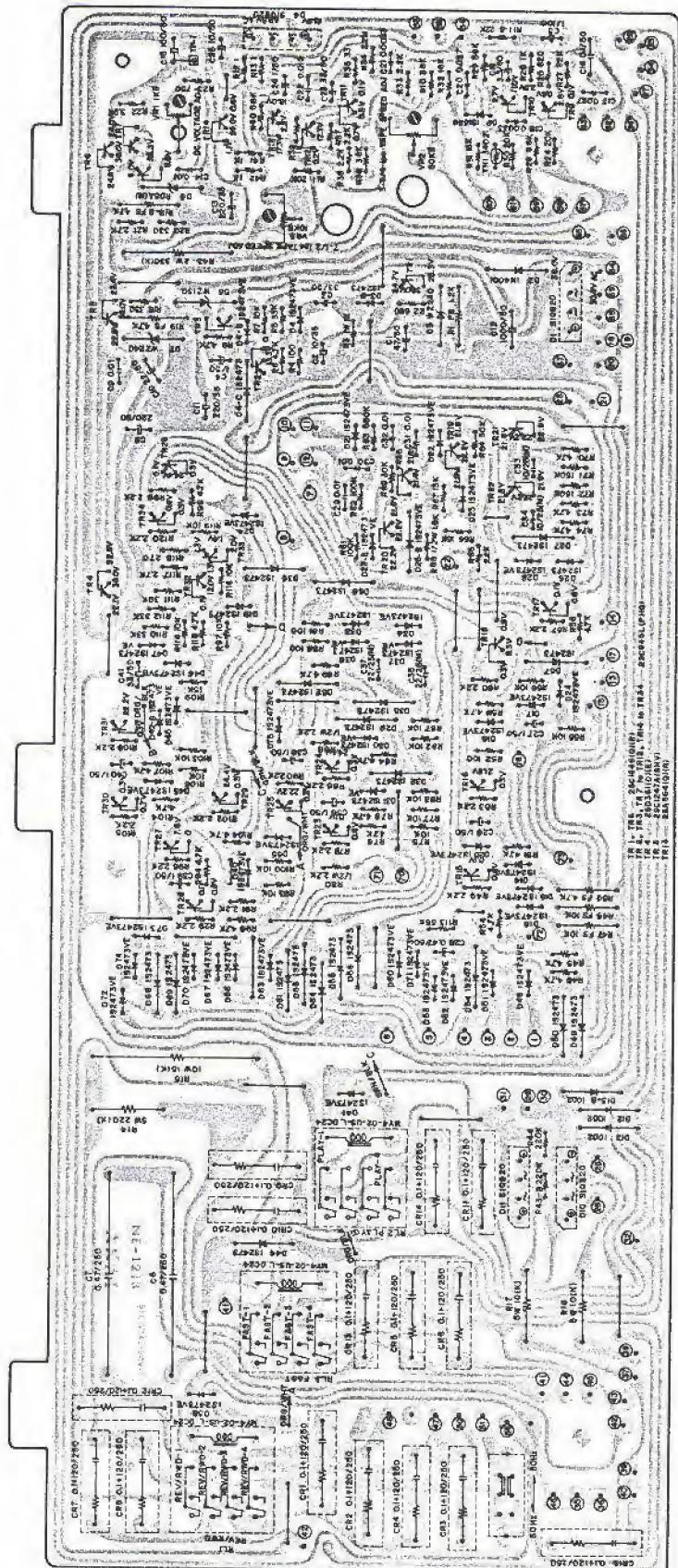
IX . CLASSIFICATION OF VARIOUS P.C BOARDS

1. COMPOSITION OF VARIOUS P.C BOARDS

1) AMP P.C BOARD NE-5222



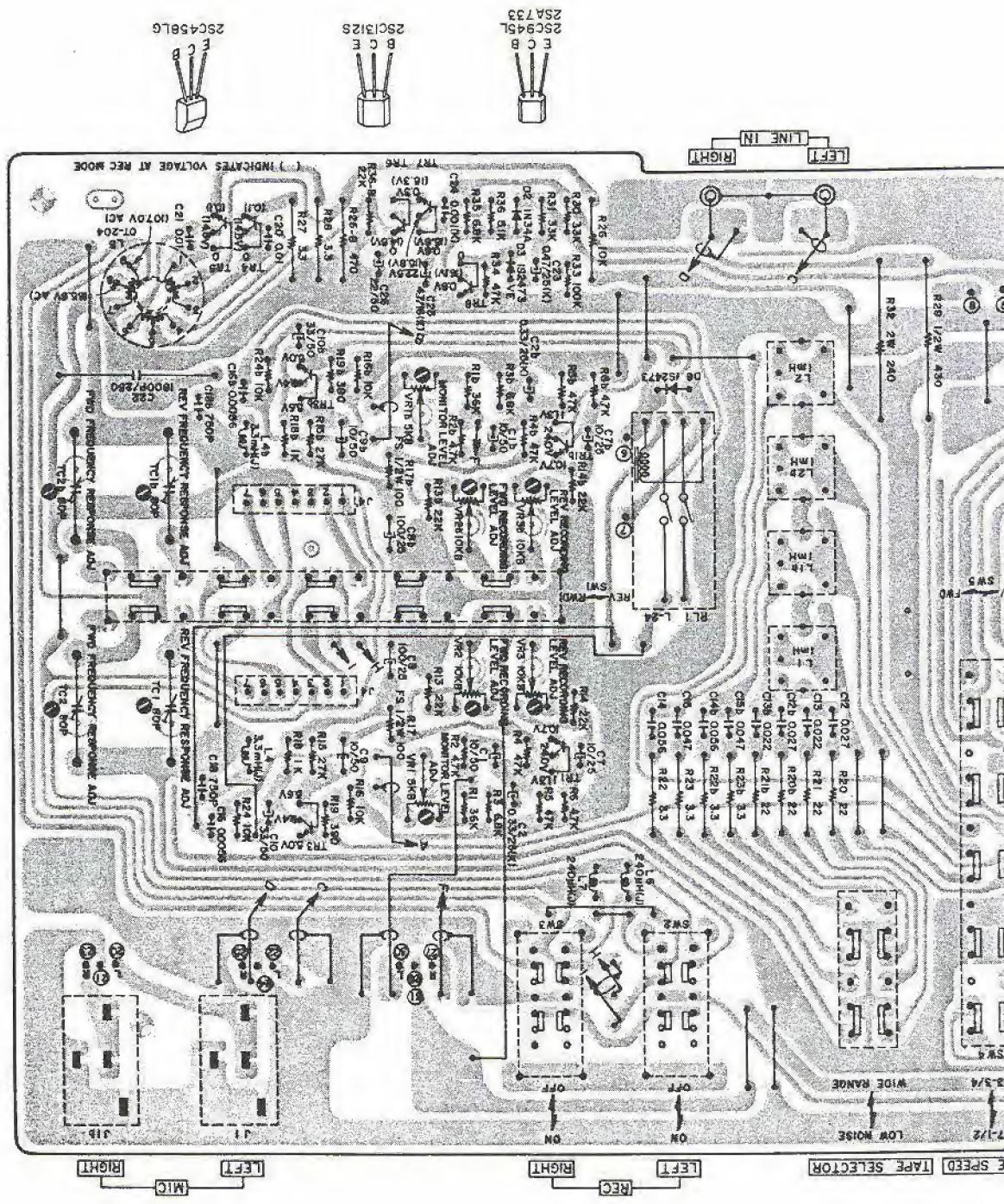
2) SYS. CON P.C BOARD NE-1213

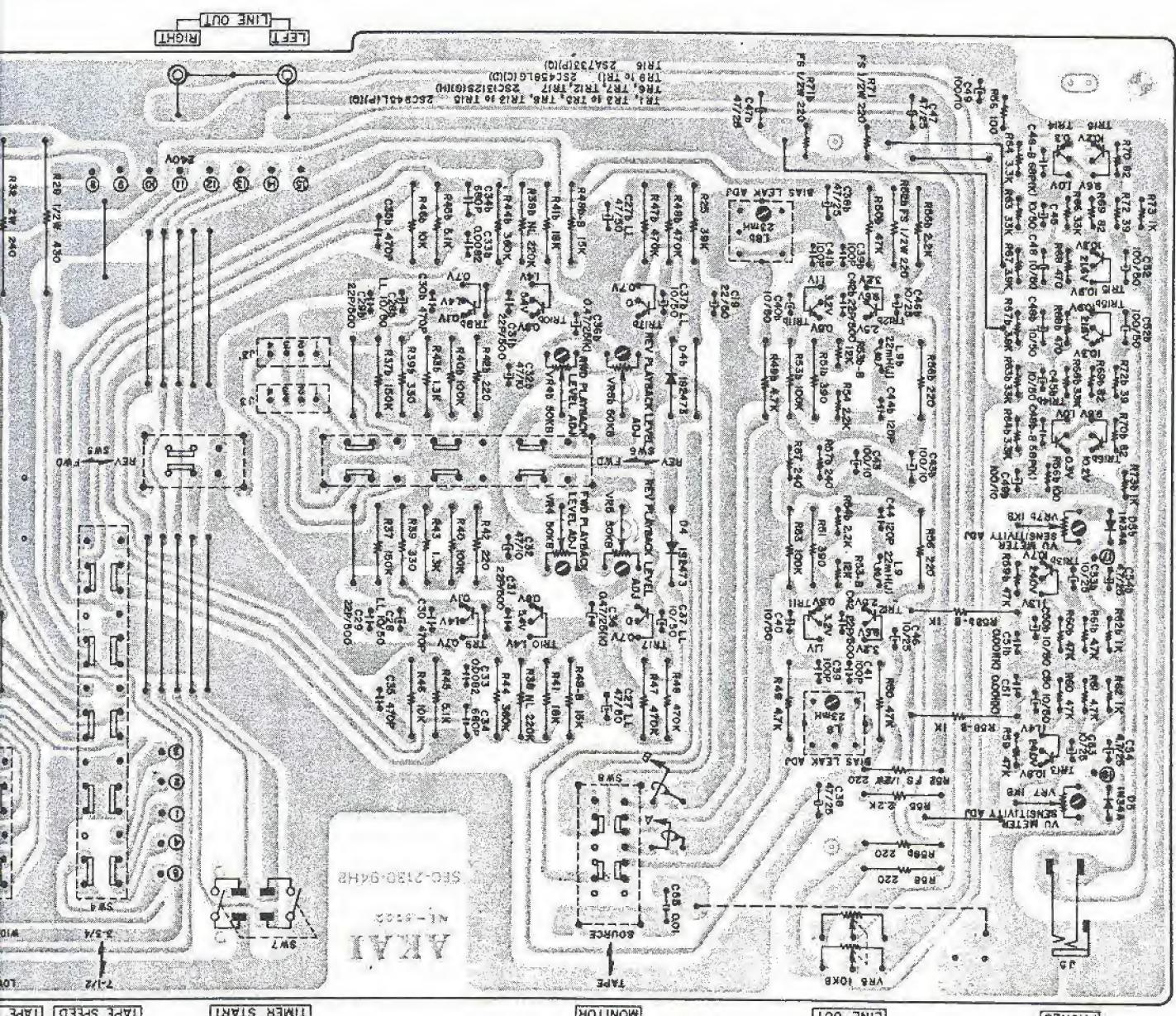


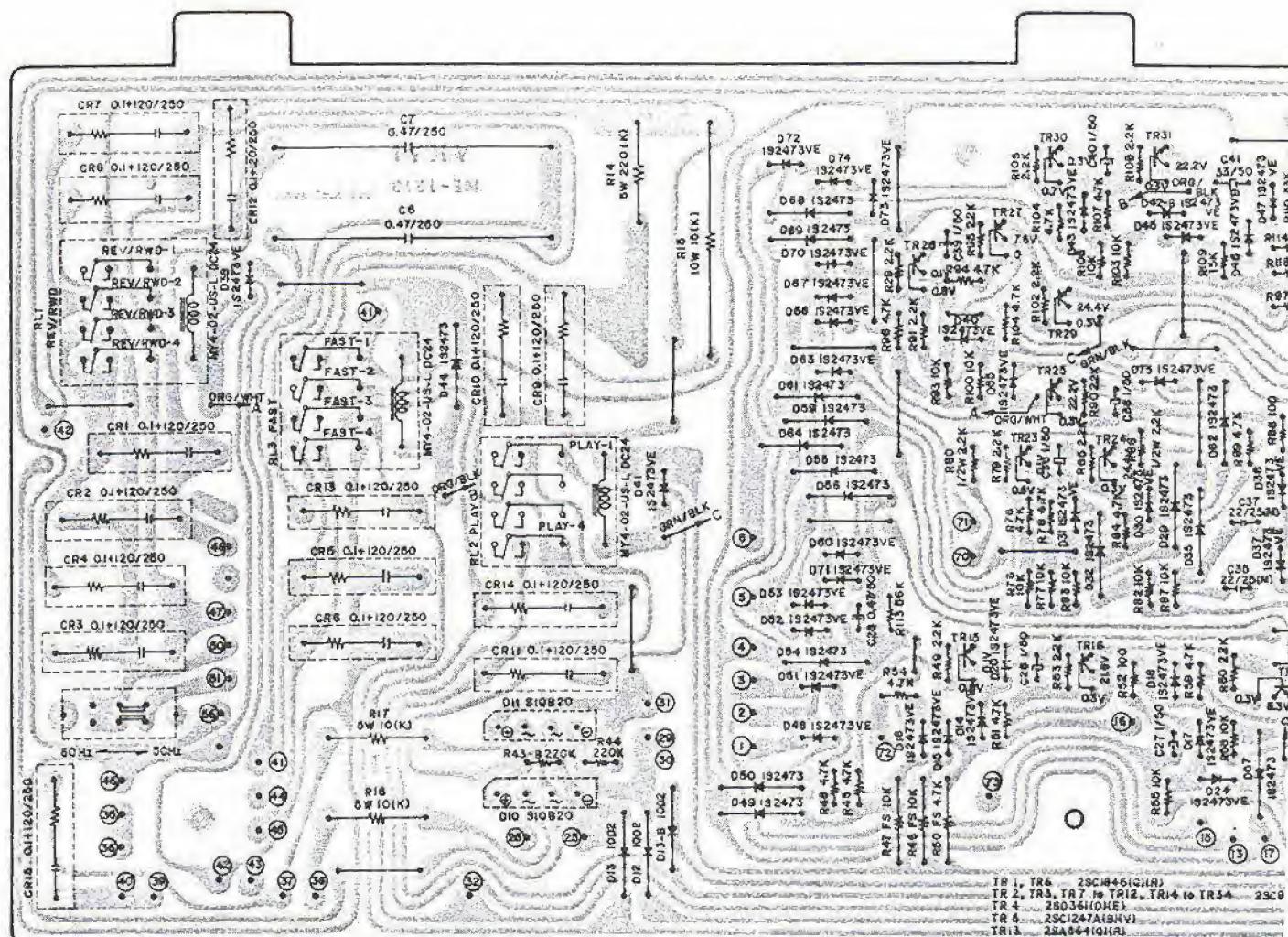
IX. CLASSIFICATION OF VARIOUS P.C BOARDS

1. COMPOSITION OF VARIOUS P.C BOARDS

1) AMP P.C BOARD NE-5222

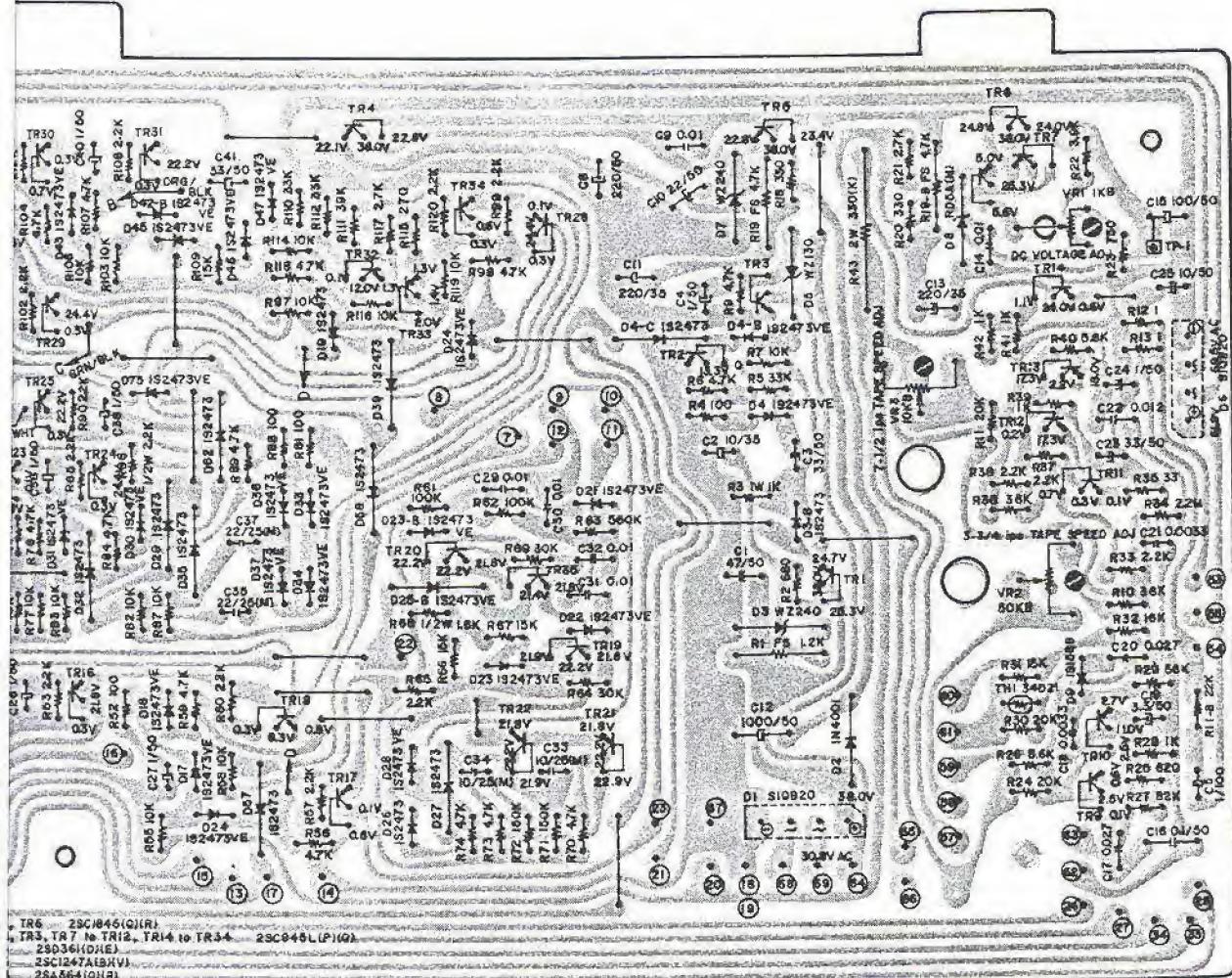






TR 1, TR6 28C18461(QHR)
TR 2, TR3, TR7 to TR12, TR14 to TR34 28C9
TR 4 280361(QHE)
TR 6 28C1247A(SHV)
TR13 28A064(QHR)

The logo of the European Central Bank (ECB) is a stylized 'E' inside a square frame with a circular emblem at the top. Below the logo, the letters 'ECB' are written vertically, and at the bottom, the number '25C1846' is printed.



TR6 29C045(Q1R)
TR3, TR7 to TR12, TR14 to TR34 29C045L(P)(Q)
29D361(DHE)
2SC1247ALBX(V)
2SA364(QKA)



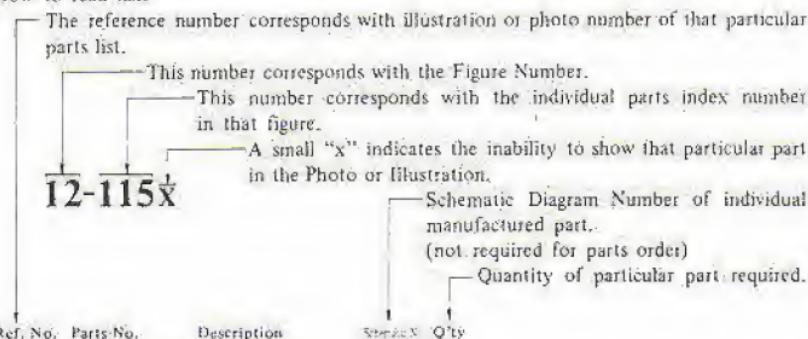
2SCI846



250361

HOW TO USE THIS PARTS LIST

1. This parts list is compiled by various individual blocks based on assembly process.
2. When ordering parts, please describe parts number, serial number, and model number in detail.
3. How to read list.



4. The symbol numbers shown on the P.C. Board list can be matched with the Composite Views of components of the Schematic Diagram or Service Manual.
5. The indications of Resistors and Capacitors in the photos of P.C. Board are being eliminated.
6. The shape of the parts and parts name, etc. can be confirmed by comparing them with the parts shown on the Electrical Parts Table of P.C. Board.
7. Both the kind of part and installation position can be determined by the Parts Number. To determine where a parts number is listed, utilize Parts Index at end of Parts List.
It is necessary first of all to find the Parts Number. This can be accomplished by using the Reference Number listed at right of parts number in the Parts Index. (meaning of ref. no. outlined in Item 3 above).
8. Utilize separate "Price List for Parts" to determine unit price. The most simple method of finding parts Price is to utilize the reference number.

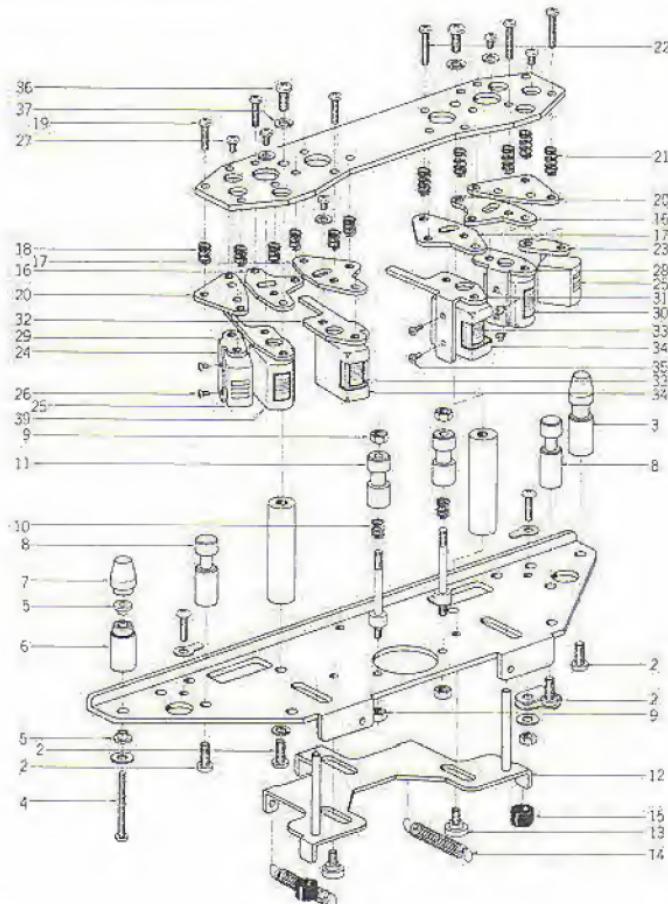
CAUTION:

1. When placing an order for parts, be sure to list the parts no., model no., and description. There are instances in which if any of this information is omitted, parts cannot be shipped or the wrong parts will be delivered.
2. Please be careful not to make a mistake in the parts no. If the parts no. is in error, a part different from the one ordered may be delivered.
3. Because parts number and parts unit supply in the Preliminary Service Manual (Basic Parts List) may be partially changed, please use this parts list for all future reference.

WARNING: INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS.

AVERTISSEMENT: IL INDIQUE LES COMPOSANTS CRITIQUES DE SURETE. POUR MAINTENIR LE DEGRE DE SECURITE DE L'APPAREIL NE remplacer LES COMPOSANTS DONT LE FONCTIONNEMENT EST CRITIQUE POUR LA SECURITE QUE PAR DES PIECES RECOMMANDEES PAR LE FABRICANT.

1. ILLUSTRATION OF HEAD BLOCK

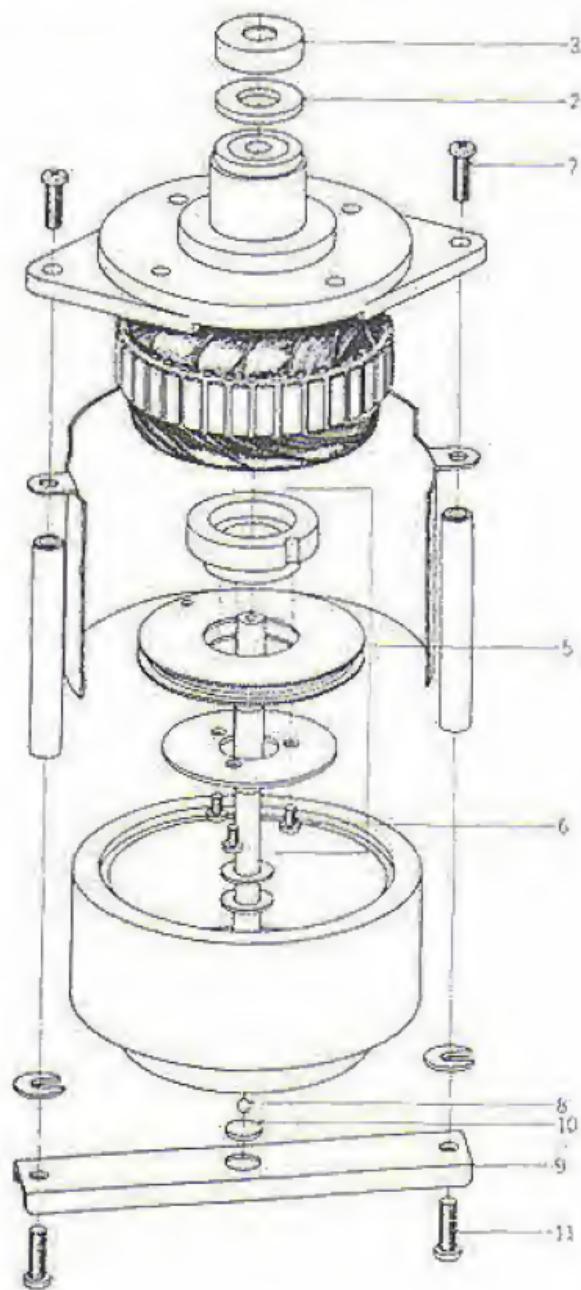


1) HEAD BLOCK

| Ref. No. | Parts No. | Description | Schematic No. | Q'ty | Ref. No. | Parts No. | Description | Schematic No. | Q'ty |
|----------|-----------|----------------------------|---------------|------|----------|-----------|--|---------------|------|
| 1-1x | BA300995 | Head Block Comp. | | 1 | 1-23 | HA301032 | Erase Head Angle (A) | NE-0205 | 1 |
| 1-2 | ZS413201 | Screw, pan head 4x8 | | 7 | 1-24 | HA301033 | Erase Head Angle (B) | NE-0205 | 1 |
| 1-3 | MS643048 | Tape Guide | NE-0002 | 1 | 1-25 | HE563220 | ERASE HEAD E4-260 | | 2 |
| 1-4 | ZS608264 | Screw, pan head 3x25 | | 1 | 1-26 | ZS300626 | Screw, pan head 2x2.5 (camera standard) | | 12 |
| 1-5 | HZ527455 | Sensing Spacer | ND-0011 | 2 | 1-27 | ZS608477 | Screw, pan head 3x4 | | 4 |
| 1-6 | MS643050 | Sensing Guide A | NE-0003 | 1 | 1-28 | HA301029 | REC Head Angle (A) | NE-0203 | 1 |
| 1-7 | MS643061 | Sensing Guide B | NE-0004 | 1 | 1-29 | HA301030 | REC Head Angle (B) | NE-0203 | 1 |
| 1-8 | HZ528581 | Tape Guide A | ND-0056 | 2 | 1-30 | HR271980 | REC HEAD (R4-240) | | 1 |
| 1-9 | ZW265522 | M3 Nut, #2 | | 4 | | | GX-215D(R) | | 2 |
| 1-10 | ZG466312 | Angle Adjust Spring E | BS-0018 | 2 | 1-31 | HA301027 | PB Head Angle (A) | NE-0202 | 1 |
| 1-11 | HZ301777 | Tape Guide (C) | NE-0212 | 2 | 1-32 | HA301028 | PB Head Angle (B) | NE-0202 | 1 |
| 1-12 | ML301289 | Shifter Slide Part GX-266D | NE-0208 | 1 | 1-33 | HP271978 | PB HEAD (P4-240) | | 2 |
| 1-13 | ZS469710 | MR Graduated Screw | MR-254 | 3 | | | GX-215D(P) | | 2 |
| 1-14 | HZ527477 | Shifter Spring | ND-0024 | 2 | 1-34 | HZ301366 | Head Shield | NE-0211 | 2 |
| 1-15 | MB426343 | Stopper Rubber, KD | KD-1068 | 2 | 1-35 | ZS201508 | Screw, pan head 2x4 | | 4 |
| 1-16 | HZ301025 | Rec Head Base | NE-0201 | 2 | 1-36 | ZS201778 | Screw, pan head 4x8 | | 2 |
| 1-17 | HZ301365 | PB Head Base | NE-0203 | 2 | 1-37 | ZW273914 | Spring Washer | | 2 |
| 1-18 | ZG364656 | Angle Adjust Spring C | BD-57 | 9 | 1-38x | EJ303566 | Micro Connector 4P Assy | | 2 |
| 1-19 | ZS417407 | Screw, pan head 3x10 | | 9 | 1-39x | EJ303567 | Micro Connector 7P Assy | | 2 |
| 1-20 | HZ301031 | Erase Head Base | NE-0204 | 2 | 1-40x | ZS608321 | Screw, pan head 3x6, w/washer | | 2 |
| 1-21 | ZG466317 | Angle Adjust Spring E | BS-0018 | 9 | | | | | |
| 1-22 | ZS608512 | Screw; pan head 3x13 | | 9 | | | | | |

When ordering parts, please describe Parts Number, Description, and Model Number in detail.

2. ILLUSTRATION OF MAIN MOTOR BLOCK

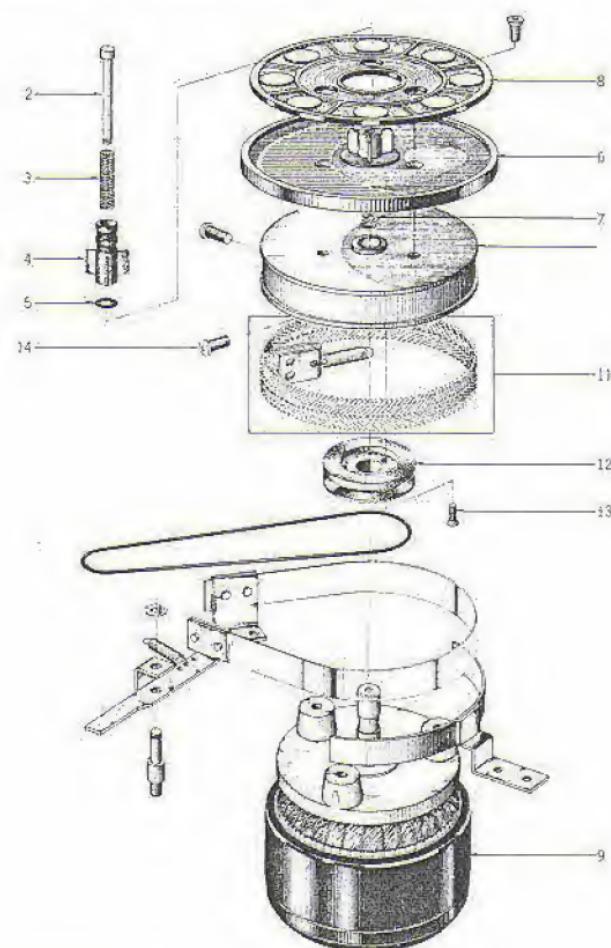


2) MAIN MOTOR BLOCK

| Ref. No. | Parts No. | Description | Schematic No. | Q'ty |
|----------|-----------|---------------------------------------|---------------|------|
| 2-1x | BM636704 | Main Motor (SCM2-24K1) Block Comp. | | 1 |
| 2-2 | ZW597622 | Felt Washer | KJ-7022 | 1 |
| 2-3 | SK597633 | Cap | KJ-7023 | 3 |
| 2-4x | ZS608308 | Screw, pan head 3x18, w/washer | | 3 |
| 2-5 | BZ600300 | Detector Gear Block Comp. | | 1 |
| 2-6 | ZS477876 | Screw, pan head 2x3 | | 3 |
| 2-7 | ZS424056 | Screw, pan head 4x10 | | 2 |
| 2-8 | MV368886 | Steel Ball D3 | | 1 |
| 2-9 | M2597644 | Thrust Angle | KJ-7024 | 1 |
| 2-10 | M2597690 | Ball Holder | KJ-7025 | 1 |
| 2-11 | ZS413201 | Screw, pan head 4x8 | | 2 |

When ordering parts, please describe Parts Number, Description, and Model Number in detail.

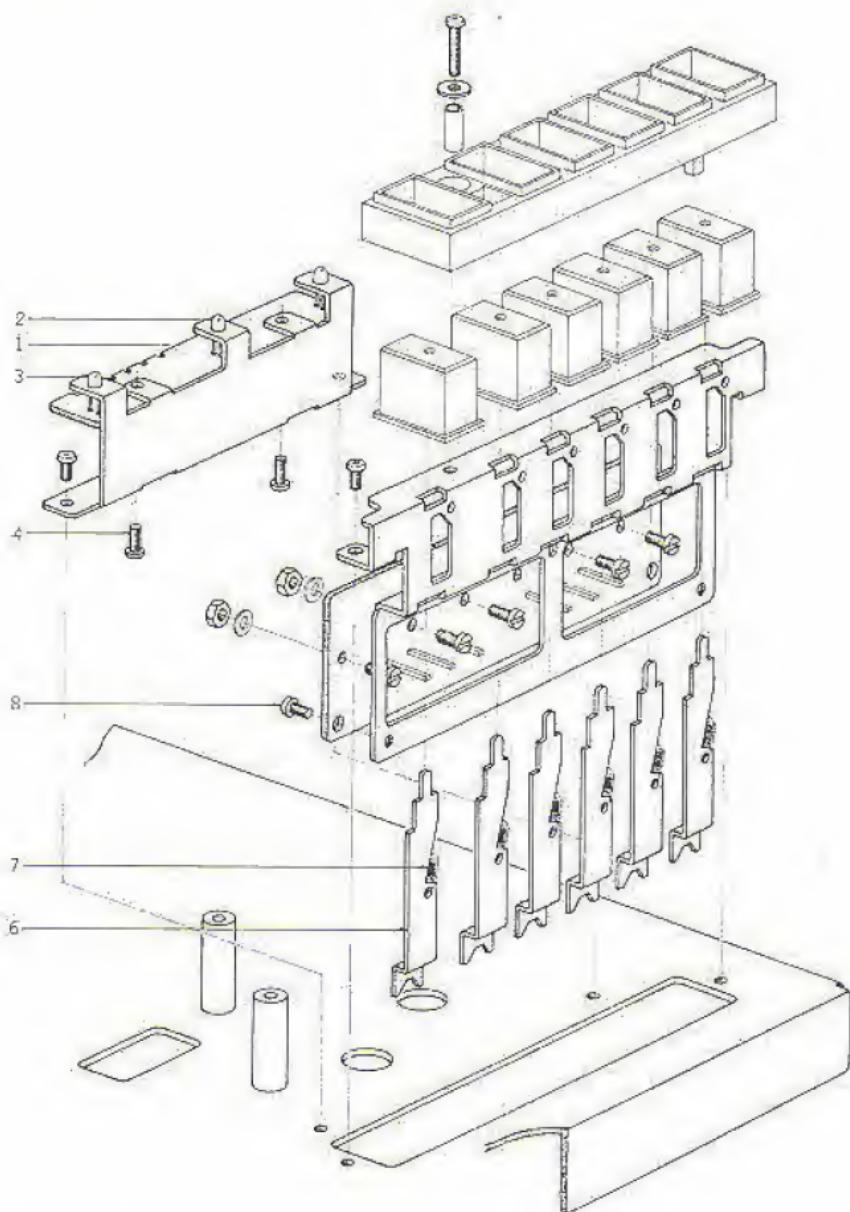
3. ILLUSTRATION OF REEL MOTOR/TABLE BLOCK



3) REEL MOTOR/TABLE BLOCK

| Ref. No. | Parts No. | Description | Schematic No. | Q'ty | Ref. No. | Parts No. | Description | Schematic No. | Q'ty |
|----------|-----------|--------------------------------------|---------------|------|----------|-----------|--------------------------|---------------|------|
| 3-1x | BR482400 | Supply Reel Table Block Comp. | | | 3-10x | ZS379350 | Screw, pan head 3x6 | | |
| 3-2 | MS342000 | Reel Shaft | 3B-108 | 1 | 3-11 | MT436860 | Brake Cloth Comp. MR | MB-369 | 1 |
| 3-3 | 2G255633 | Reel Spring | 3B-109 | 1 | 3-12 | MR317507 | Counter Pulley (Take-up) | MB-217 | 1 |
| 3-4 | MT255420 | Reel Retainer | 3B-102 | 1 | 3-13 | ZS433315 | Screw, countersunk head | | |
| 3-5 | MT516565 | 'O' Ring 2.8x1.9 | 3B-139 | 1 | 3-14 | ZS424056 | Screw, pan head 4x10 | 2.3x8 | 2 |
| 3-6 | MT488147 | Reel Table Disk B, RD | RD-272 | 1 | | | | | |
| 3-7 | ZW270088 | 'E' Ring 1.9M | 6-1-9 | 1 | | | | | |
| 3-8 | MT473422 | Reel Table Rubber, KH | KB-2042 | 1 | | | | | |
| 3-9 | BM314741 | Motor Block Comp. 24X0-2 (Torque) | | | | | | | 2 |

4. ILLUSTRATION OF OPERATION BLOCK

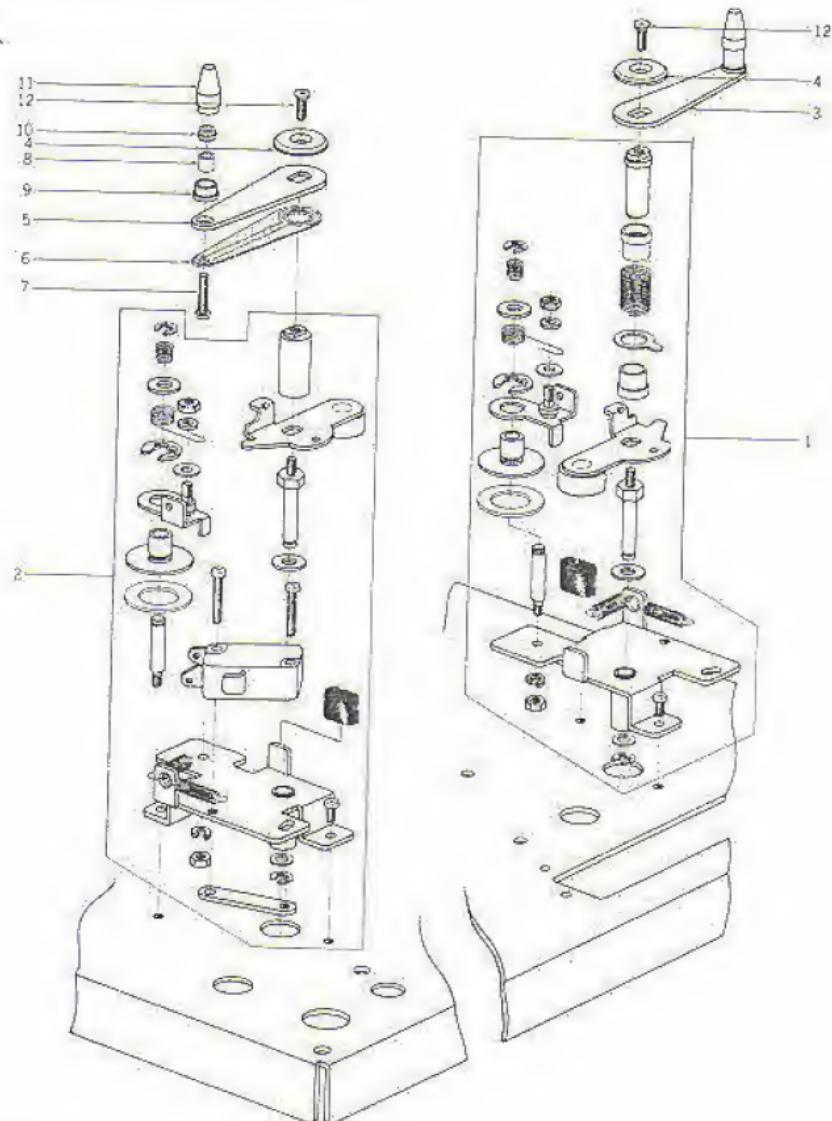


4) OPERATION BLOCK

| Ref. No. | Parts No. | Description | Schematic No | Q'ty |
|----------------------------------|-----------|---------------------------|--------------|------|
| DIRECTION P.C BOARD BLOCK | | | | |
| 4-1 | EA301281 | Lamp P.C Board | NE-222 | 1 |
| 4-2 | ED263138 | LED GL-32PG | 45-15-15 | 2 |
| 4-3 | ED249377 | LED GL-3ARI | 45-15-14 | 1 |
| 4-4 | ZS325495 | Tapping Screw #2, 3x6(BR) | | 2 |
| OPERATION BLOCK | | | | |
| 4-5 | BK301003 | Operation Block Comp. | | 1 |
| 4-6 | ML301056 | Operation Lever | NE-224 | 6 |
| 4-7 | ZG456120 | Setting Lever Spring | CS-1187 | 6 |
| 4-8 | ZS422076 | Screw, pan head 3x5 | | 3 |

When ordering parts, please describe Parts Number, Description, and Model Number in detail.

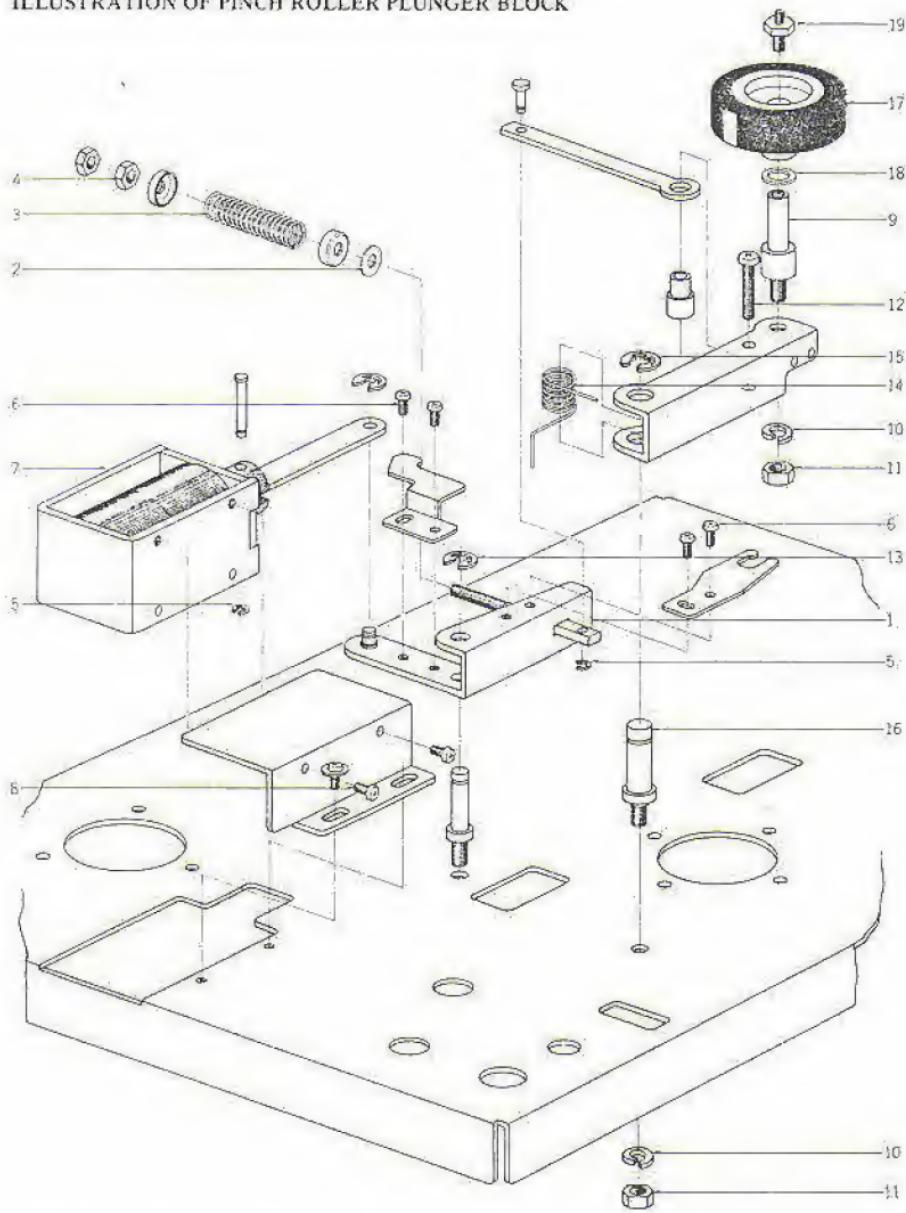
5. ILLUSTRATION OF TENSION BLOCK



5) TENSION BLOCK

| Ref. No. | Parts No. | Description | Schematic No. | Q'ty |
|-----------------------------|-----------|----------------------------------|---------------|------|
| 5-1 | BL301287 | Tension (R) Block Comp. | | 1 |
| 5-2 | BL301288 | Tension (L) Block Comp. | | 1 |
| NECHA ASSEMBLY BLOCK | | | | |
| 5-3 | ML301270 | Tension Arm Part NE-2 | NE-229 | 1 |
| 5-4 | ZW301052 | Decorative Washer | NE-1212 | 2 |
| 5-5 | MZ301067 | Tension Arm | NE-228 | 1 |
| 5-6 | EA301047 | Tension Arm P.C. Board | NE-226 | 1 |
| 5-7 | ZS419670 | Screw, pan head 3x12 | | 1 |
| 5-8 | MZS35083 | Insulator Bush B | TW-2076 | 1 |
| 5-9 | HZ301037 | Tape Guide (B) | NE-0210 | 1 |
| 5-10 | MZS35072 | Insulator Bush A | TW-2075 | 1 |
| 5-11 | HZ301049 | Tape Guide (A) | NE-229 | 1 |
| 5-12 | ZS203084 | Screw, oval countersunk head 3x8 | | |

6. ILLUSTRATION OF PINCH ROLLER PLUNGER BLOCK

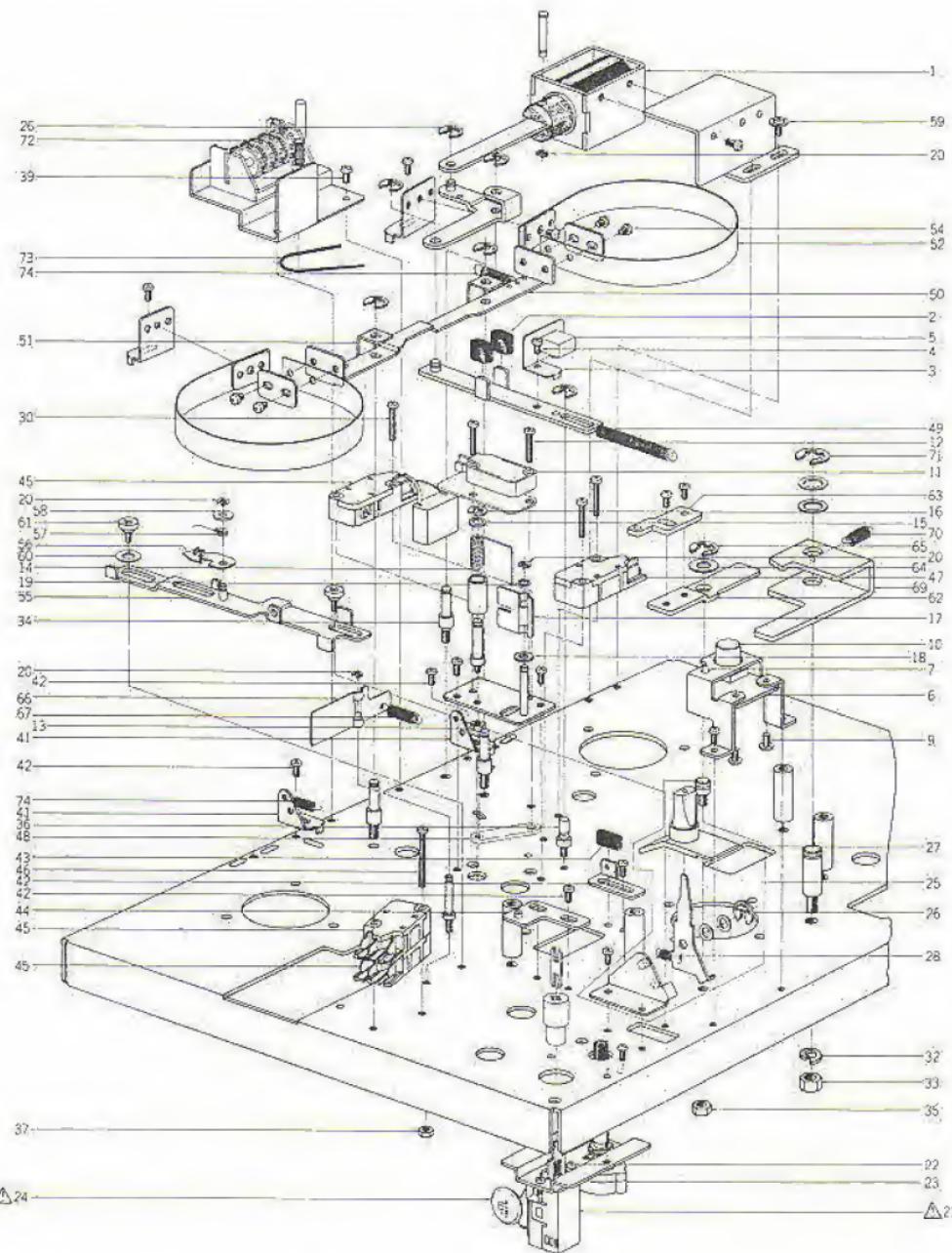


6) PINCH ROLLER PLUNGER BLOCK

| Ref. No. | Parts No. | Description | Schematic No. | Q'ty | Ref. No. | Parts No. | Description | Schematic No. | Q'ty |
|----------|-----------|--------------------------|---------------|------|----------|-----------|-------------------------|---------------|------|
| 6-1 | ML301453 | P Plunger Lever (B) | | | 6-11 | ZW413278 | Nut M5, #1 | | 2 |
| | | Part NE-2 | NE-207 | 1 | 6-12 | ZS444262 | Screw, binding head 4x8 | | 1 |
| 6-2 | ZW450753 | Washer (Nylon) D4.1x9x1t | | 1 | 6-13 | ZW290283 | "U" Ring 2.85M | 6-1-1 | 2 |
| 6-3 | ZG644095 | Cramp Spring | NE-2028 | 1 | 6-14 | ZG301340 | Pinch Roller Spring | NE-233 | 1 |
| 6-4 | ZW413188 | Nut M4, #1 | | 2 | 6-15 | ZW270156 | "E" Ring 6M | 6-1-2 | 1 |
| 6-5 | ZW270088 | "E" Ring 1.9M | 6-1-9 | 2 | 6-16 | MSS28456 | Pinch Roller Arm Shaft | ND-1010 | 1 |
| 6-6 | ZS323722 | Screw, binding head 3x5 | | 6 | 6-17 | MP275984 | Pinch Roller RD D=40 | ND-233 | 1 |
| 6-7 | EP638706 | Plunger Solenoid 1660PHT | 44-1-24 | 1 | 6-18 | ZW376391 | Washer (Rolyslider) | | |
| 6-8 | ZS422076 | Screw, pan head 3x5 | | 2 | | | D6.1x10x0.134 | | |
| 6-9 | MSS27591 | Pinch Roller Shaft | ND-1033 | 1 | 6-19 | ZS527681 | Pinch Roller Set Screw | ND-6019 | 1 |
| 6-10 | ZW274026 | Spring Washer | | 2 | | | | | |

When ordering parts, please describe Parts Number, Description, and Model Number in detail.

7. ILLUSTRATION OF MECHA ASSEMBLY BLOCK



7) MECHA ASSEMBLY BLOCK

| Ref. No. | Parts No. | Description | Schematic No. | Q'ty | Ref. No. | Parts No. | Description | Schematic No. | Q'ty |
|------------|-----------|----------------------------|---------------|------|-------------|-----------|---------------------------|---------------|------|
| 7-1 | EP638695 | Plunger Solenoid 1240PHT | H-1-73 | 1 | 7-6 | EA301282 | Mute SW. P.C Board | NE-2226 | 1 |
| 7-2 | MB606712 | Stopper Rubber KJ | KJ-2069 | 2 | 7-7 | ED249377 | LED GL-3ARL | 45-15-14 | 1 |
| 7-3 | MZ529244 | SW. Plate | KD-1051 | 1 | 7-8x | ES301205 | Tentacle SW. SCMB1002 | 25-9-4 | 1 |
| 7-4 | ZS417216 | Screw, pan head 3x4 | | 1 | 7-9 | ZS325495 | Tapping Screw #2, 3x6(BR) | | 11 |
| 7-5 | MZ669532 | Cushion, prevention shock. | KE 1059 | 1 | 7-10 | SB301065 | Mute Button | NE-2222 | 1 |

When ordering parts, please describe Parts Number, Description, and Model Number in detail.

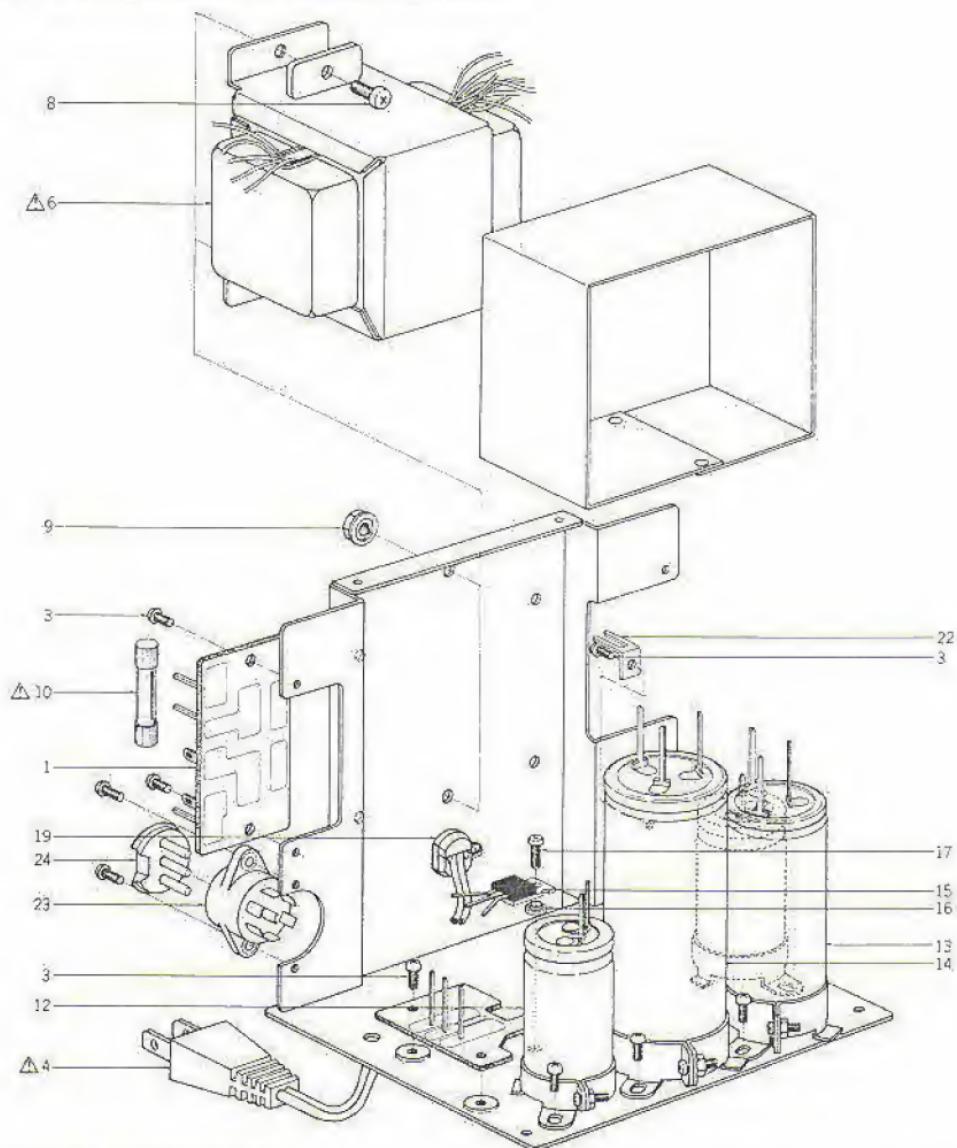
| Ref. No. | Parts No. | Description | Schematic No. | Q'ty |
|----------------------|-----------|-----------------------------------|---------------|------|
| 7-11 | ES422111 | QUICK SW. BLOCK Micro SW. MT-10AT | 25-1-21 | 1 |
| 7-12 | ZS608512 | Screw, pan head 3x13 | 2 | 2 |
| 7-13 | ZW273756 | Nut M3, #1 | 1 | 1 |
| 7-14 | ZG529211 | SW, Spring | ND 1053 | 1 |
| 7-15 | ZW487811 | Washer (Polyslider) | D4.1x7x0.5t | 1 |
| 7-16 | ZW270101 | 'E' Ring 3M | 6-1-5 | 1 |
| 7-17 | MZ529391 | Quick Plate | ND 1063 | 1 |
| 7-18 | ZW550642 | Washer (SPC) D.3.1x7.9x0.5t | 1 | 1 |
| 7-19 | ZW438928 | Washer (PBP) D.3.5x5x0.2t | 1 | 1 |
| 7-20 | ZW270088 | 'E' Ring 1.9M | 6-1-5 | 5 |
| POWER SW. BASE BLOCK | | | | |
| 7-21 | ES293703 | △ Push SW. SDV1P TV-5 | 25-5-254 | 1 |
| 7-22 | ZS422076 | Screw, pan head 3x5 | 2 | 2 |
| 7-23 | ES301207 | Rotary SW. SRN1023SA1 | 25-6-110 | 1 |
| 7-24 | EC335193 | △ Ceramic/C. U/L 0.01μ | 1.4k 150WV | 1 |
| PAUSE SW. BLOCK | | | | |
| 7-25 | HS636805 | Pause SW. Block Comp. | NE-1072 | 1 |
| 7-26 | ZW290283 | 'U' Ring 2.85M | 6-1-1 | 5 |
| 7-27 | SK644117 | Pause Knob | NE-0330 | 1 |
| 7-28 | ZG567696 | Azimuth Spring 2 | CP-041 | 1 |
| MECHA ASSEMBLY BLOCK | | | | |
| 7-29x | ZS413201 | Screw, pan head 4x8 | 14 | |
| 7-30 | ZS422965 | Screw, pan head 3x15 | 5 | |
| 7-31x | MH528107 | Lever Pin | ND-1005 | 1 |
| 7-32 | ZW274026 | Spring Washr | 2 | |
| 7-33 | ZW413278 | Nut Mr. #1 | 4 | |
| 7-34 | MS397012 | Brake Lever Shaft | KD-1003 | 1 |
| 7-35 | ZW413185 | Nut Me. #1 | 4 | |
| 7-36 | MS465480 | Brake Lever Shaft B | KD-1003 | 1 |
| 7-37 | ZW273756 | Nut M3, #1 | 2 | |
| 7-38x | ML301219 | Center Parts | NE-1208 | 1 |
| 7-39 | ZS422076 | Screw, pan head 3x5 | 29 | |
| 7-40x | ZS447840 | Tapping Screw #2, 3x8 (BR) | 6 | |
| 7-41 | MZ247825 | Spring Hanger | MU-1306 | 2 |
| 7-42 | ZS323728 | Screw, binding head 3x5 | 10 | |
| 7-43 | MZ810191 | Cushion Rubber, RD | RD-278 | 1 |
| 7-44 | MZ673165 | Pause Lock Base Part NE | NE-1019 | 1 |
| 7-45 | ES573456 | Micro SW. K-2 | 25-1-30 | 3 |
| 7-46 | ZS608264 | Screw, pan head 3x25 | 2 | |
| 7-47 | ES562465 | Micro SW. K-1. | 25-1-26 | 1 |
| 7-48 | ZW397146 | Micro SW. Nut | KD-1052 | 1 |
| 7-49 | ZG527938 | FF Reset Spring | KD-1024 | 1 |
| 7-50 | ML314976 | Brake Lever A | MR-210 | 1 |
| 7-51 | ML396810 | Brake Lever B | KD-1038 | 2 |
| 7-52 | MT314987 | Brake Band. | MR-210 | 2 |
| 7-53x | ZS422074 | Screw, pan head 3x3 | 6 | |
| 7-54 | ZS417216 | Screw, pan head 3x4 | 4 | |
| 7-55 | ML301274 | Pause Arm (3) Part NE-2 | NE-1004 | 1 |
| 7-56 | TC515575 | SW. Lock Cam B | CG-2301 | 1 |
| 7-57 | ZG514440 | Button Lock Spring B | CG-2303 | 1 |
| 7-58 | ZW616004 | Washer (SPC) D.3.2x8x1t | 1 | |
| 7-59 | ZS608321 | Screw, pan head 3x6 w/washer | 2 | |
| 7-60 | ZW324545 | Washer (PBP) D.5.1x10.3x0.4t | 1 | |
| 7-61 | ZS469710 | MR Graduated Screw | MR-254 | 2 |
| 7-62 | ML301038 | Pause Arm (1) | NE-1202 | 1 |
| 7-63 | ML301039 | Pause Arm (2) | NE-1203 | 1 |
| 7-64 | ZW260188 | Washer (Nylon) D.6.2x13x0.5t | 1 | |
| 7-65 | ZW270134 | 'E' Ring 5M | 6-1-9 | 1 |
| 7-66 | MZ640080 | Quick Plate | NE-1039 | 1 |
| 7-67 | ZG232121 | Tension Lever Spring | MH-143 | 1 |
| 7-68x | ZS608310 | Screw, pan head 3x5, w/lug. | 1 | |
| 7-69 | ML301103 | Pause Arm (B-2) | NE-1012 | 1 |
| 7-70 | ZG516418 | Eject Spring | CG-1238 | 1 |
| 7-71 | ZW334653 | 'E' Ring 7M | 6-1-9 | 1 |
| 7-72 | MC638684 | Counter MP490-23 | 9-1-43 | 1 |
| 7-73 | MBS27556 | Counter Belt D93x1.5 | KD-1022 | 1 |
| 7-74 | ZG315011 | Brake Lever Spring | MR-116 | 2 |

8. P.C BOARDS

| (I) AMP P.C BOARD (NE-5222) BLOCK | | | | | |
|-----------------------------------|-----------|---|-------------------|-----------|---|
| Symbol No. | Parts No. | Description | Schematic No. | Q'ty | |
| (I)-1 | BA301275 | Amp P.C Board Comp. | GX-266D | 1 | |
| (I)-TR1 | ET639437 | Transistor 2SC945L(Q)(P) | 45-1-55 | 2 | |
| (I)-TR3 | ET539437 | Transistor 2SC945L(Q)(P) | 45-1-55 | 4 | |
| | to5 | | | | |
| (I)-TR6,7 | ET603257 | Transistor 2SC1312S(G)(H) | 45-1-187 | 2 | |
| (I)-TR8 | ET639437 | Transistor 2SC945L(Q)(P) | 45-1-55 | 1 | |
| (I)-TR9 | ET391768 | Transistor 2SC458LG(C)(D) | 45-1-29 | 6 | |
| | to11 | | | | |
| (I)-TR12 | ET603257 | Transistor 2SC1312S(G)(H) | 45-1-187 | 2 | |
| (I)-TR13 | ET639437 | Transistor 2SC945L(Q)(P) | 45-1-55 | 6 | |
| | to15 | | | | |
| (I)-TR14 | ET554657 | Transistor 2SA733(P)(Q) | 45-1-124 | 2 | |
| (I)-TR17 | ET603257 | Transistor 2SC1312S(G)(H) | 45-1-187 | 2 | |
| (I)-D1 | ED624903 | Silicon Diode 1S2473 | 45-3-28 | 1 | |
| (I)-D2 | ED219464 | Germanium Diode 1N34A | 45-3-1 | 1 | |
| (I)-D3 | ED560913 | Silicon Diode 1S2473VE | 45-3-23 | 1 | |
| (I)-D4 | ED624903 | Silicon Diode 1S2473 | 45-3-28 | 2 | |
| (I)-D5 | ED219464 | Germanium Diode 1N34A | 45-3-1 | 2 | |
| (I)-D6 | ED624903 | Silicon Diode 1S2473 | 45-3-28 | 1 | |
| (I)-RL1 | EP249344 | Relay, Reed, L Type L24 | 45-2-26 | 1 | |
| (I)-L1,2 | E0301448 | Inductor 45H-044 1MH | 23-1-277 | 4 | |
| (I)-L4 | E0301467 | Ferrit Inductor RX-9P 3.3MH(J) | 23-1-275 | 2 | |
| (I)-L5 | ED383365 | OSC. Coil OT-204 | 23-4-20 | 1 | |
| (I)-L6,7 | E0565558 | Ferrit Inductor FL9H 240μH(J) | 23-1-233 | 2 | |
| (I)-L8 | E0624857 | Inductor GE6070A 23MH | 23-1-227 | 1 | |
| (I)-L9 | E0301712 | Coil RX-9P 22MH(J) | 23-1-275 | 2 | |
| (I)-J1 | EJ249221 | Mic. Jack MU | 31-2-77 | 2 | |
| (I)-J2A,B | EJ301714 | Jack Plate NE-2 | 31-5-133 | 1 | |
| (I)-J3 | EJ249333 | Micro Connector 4P Plug | MU | 42-1-104 | 2 |
| (I)-J4 | EJ249366 | Micro Connector 7P Plug | MU | 42-1-104 | 2 |
| (I)-J5 | EJ249232 | Headphone Jack MU | 31-2-77 | 1 | |
| (I)-VR1 | EV464207 | Semi-fixed/Vol. V8K4-1 | 5 kB | 36-10-266 | 2 |
| (I)-VR2, | EV520806 | Semi-fixed/Vol. V8K4-1 | 10 kB | 36-10-266 | 4 |
| (I)-VR4, | EV464220 | Semi-fixed/Vol. V8K4-1 | 50 kB | 36-10-266 | 4 |
| (I)-VR6 | EV301437 | Single axial 2 throw Vol. | GM70R-715 10 kBx2 | 36-22-78 | 1 |
| (I)-VR7 | EV478686 | Semi-fixed/Vol. V8K4-1 | 1 kB | 36-10-266 | 2 |
| (I)-SW1 | ES301435 | Slide SW. SL-210E | 25-3-136 | 1 | |
| (I)-SW2,3 | ES301433 | Lever SW. SLR542 | 25-12-39 | 2 | |
| (I)-SW4 | ES301434 | Push SW. SUF-24 | 25-5-256 | 1 | |
| (I)-SW5 | ES301715 | Slide SW. SSB02214 | 25-3-127 | 1 | |
| (I)-SW6 | ES301436 | Slide SW. CL-206E | 25-3-135 | 1 | |
| (I)-SW7 | ES301438 | Leaf SW. BSW-89 | 25-10-27 | 1 | |
| (I)-SW8 | ES301433 | Lever SW. SLR542 | 25-12-39 | 1 | |
| (I)-2 | ZS558101 | Screw, pan head 3x6 w/washer | | | |
| (I)-TC1,2 | EC558202 | Trimmer/C. TM-80A | 24-2-26 | 4 | |
| (I)-C2 | EC604102 | Solid Aluminum/C. (Vert. Type) 0.33μF(K) | 25WV | 24-19-2 | 2 |
| (I)-C10 | EC303145 | Tantalum/C. (DTS Type) 22μF(K) 16WV | 24-15-8 | 2 | |
| (I)-C18 | EC562678 | Styrol/C. (Vert. Type) 750PF(J) 50WV | 24-11-3 | 2 | |
| (I)-C22 | EC558235 | Styrol/C. (Tub. Type) 1800PF(J) 250WV | 24-11-10 | 1 | |
| (I)-C23 | EC675178 | Solid Aluminum/C. (Vert. Type) 0.47μF(K) | 25WV | 24-19-2 | 1 |
| (I)-C25 | EC301445 | Solid Aluminum/C. (Vert. Type) 4.7μF(K) | 16WV | 24-19-2 | 1 |
| (I)-C26 | EC303145 | Tantalum/C. (DTS Type) 22μF(K) 16WV | 24-15-8 | 1 | |
| (I)-C30 | EC405898 | Styrol/C. (Vert. Type) 470PF(J) 50WV | 24-11-3 | 2 | |
| (I)-C34 | EC434070 | Styrol/C. (Vert. Type) 680PF(J) 50WV | 24-11-3 | 2 | |

| Symbol No. | Parts No. | Description | Schematic No. | Qty | Symbol No. | Parts No. | Description | Schematic No. | Qty | | |
|------------|-----------|--|---------------|----------|------------|--|--|---------------|----------|-------------------------------|---|
| (1)-C35 | EC405898 | Styrol/C. (Vert. Type) 470PF(J) 50WV | 26-11-3 | 2 | (2)-D40 | ED560913 | Silicon Diode 1S2473VE to42 | 45-3-23 | 3 | | |
| (1)-C36 | EC675178 | Solid Aluminum/C. (Vert. Type) 0.47 μ F(K) | 25WV | 24-19-2 | (2)-D42 | ED560913 | Silicon Diode 1S2473VE 43 | 45-3-23 | 2 | | |
| (1)-C39 | EC513944 | Styrol/C. (Vert. Type) 100PF(J) 50WV | 24-11-1 | 2 | (2)-D44 | ED624903 | Silicon Diode 1S2473 | 45-3-28 | 1 | | |
| (1)-C41 | EC513944 | Styrol/C. (Vert. Type) 100PF(J) 50WV | 24-11-1 | 2 | (2)-D45 | ED560913 | Silicon Diode 1S2473VE to48 | 45-3-23 | 4 | | |
| (1)-C56 | EC379721 | Mylar/C. (Vert. Type) 0.0012 μ F(J) 50WV | 24-1-1 | 2 | (2)-D49 | ED624903 | Silicon Diode 1S2473 50 | 45-3-28 | 2 | | |
| (1)-C57 | EC3911004 | Mylar/C. (Vert. Type) 0.0033 μ F(J) 50WV | 24-1-1 | 2 | (2)-D51 | ED560913 | Silicon Diode 1S2473VE to54 | 45-3-23 | 4 | | |
| (1)-R32 | ER303148 | Metal Oxide Film/R. 2W 240 ohms(J) | 35-15-18 | 1 | (2)-D55 | ED624903 | Silicon Diode 1S2473 to59 | 45-3-28 | 5 | | |
| (1)-R71 | ER666854 | Carbon/R. F1/2W 220 ohms (J) | 35-11-13 | 1 | (2)-D60 | ED560913 | Silicon Diode 1S2473VE 62 | 45-3-23 | 1 | | |
| (2)-D61 | ED624903 | Silicon Diode 1S2473 | 45-3-28 | 2 | (2)-D63 | ED560913 | Silicon Diode 1S2473VE 66 | 45-3-23 | 1 | | |
| (2)-D64 | ED624903 | Silicon Diode 1S2473 | 45-3-28 | 1 | (2)-D65 | ED560913 | Silicon Diode 1S2473VE 1067 | 45-3-23 | 3 | | |
| (2)-D68 | ED624903 | Silicon Diode 1S2473 | 45-3-28 | 2 | (2)-D70 | ED560913 | Silicon Diode 1S2473VE 69 | 45-3-23 | 6 | | |
| (2)-D71 | EP300132 | Relay MY4-02-US-L to75 | 45-1-32 | 3 | (2)-RL1 | EP300132 | Relay MY4-02-US-L | 45-1-32 | 3 | | |
| (2)-SW1 | ES258232 | Slide SW. S-2930 | 25-3-128 | 1 | (2)-SW2 | ES258232 | Slide SW. S-2930 | 25-3-128 | 1 | | |
| (2)-TH1 | ED593357 | Thermister 34D21 | 45-5-21 | 1 | (2)-TH2 | ED593357 | Thermister 34D21 | 45-5-21 | 1 | | |
| (2)-VR1 | EV478686 | Semi-fixed/Vol. V8K4.1 1 k Ω | 36-10-266 | 1 | (2)-VR2 | EV302718 | Semi-fixed/Vol. V18K3-6(4US) 50 kB | 36-9-26 | 1 | | |
| (2)-VR3 | EV302719 | Semi-fixed/Vol. V18K3-6(4US) 10 kB | 36-9-26 | 1 | (2)-CR1 | ER226798 | Spark Quencher 1015 | 36-9-26 | 1 | | |
| (2)-Z1 | ZS379350 | 0.1 μ A 120 ohms 250WV | 41-1-10 | 15 | (2)-Z2 | ZS379350 | 0.1 μ A 120 ohms 250WV | 41-1-10 | 15 | | |
| (2)-Z3 | ZW516993 | Screw, pan head 3x6 | 3 | (2)-Z4 | ZS666336 | Nut M3, #1 | 1 | (2)-Z5 | ZS666336 | Tapping Screw #2, 3x8(pan) | 1 |
| (2)-Z6 | ZS666336 | Tapping Screw #2, 3x8(pan) | 1 | (2)-C6,7 | EC462611 | MP/C. (Tub. Type) 0.47 μ F(K) 250WV | 21-9-28 | 2 | | | |
| (2)-D2 | ED511097 | Silicon Diode 1N4001 | 45-2-50 | 1 | (2)-C12 | EC565345 | Elect./C. (Vert. Type) 1000 μ F 50WV | 24-12-9 | 1 | | |
| (2)-D3 | ED511918 | Zener Diode WZ-240 | 45-6-67 | 1 | (2)-C33 | EC301424 | Tantalum/C. 10 μ F(M) 25WV | 24-15-10 | 2 | | |
| (2)-D38 | ED624903 | Silicon Diode 1S2473 | 45-3-28 | 1 | (2)-C35 | EC237925 | Tantalum/C. 22 μ F(M) 25WV | 24-13-11 | 1 | | |
| (2)-D44 | ED560913 | Silicon Diode 1S2473VE to48 | 45-3-28 | 1 | (2)-C37 | EC237936 | Tantalum/C. (DTS Type) 22 μ F(M) 25WV | 24-15-8 | 1 | | |
| (2)-D45 | ED539976 | Silicon Diode 1S2473 | 45-3-28 | 1 | (2)-R3 | ER391634 | Metal Oxide Film/R. 1W 1K(K) | 35-15-10 | 1 | | |
| (2)-D6 | ED249581 | Zener Diode WZ-130 | 45-6-67 | 1 | (2)-R14 | ER303122 | Cement/R. 10W 220 ohms (K) | 35-16-72 | 1 | | |
| (2)-D7 | ED303123 | 0.6A 200V (RED) | 45-2-74 | 1 | (2)-R15 | ER301248 | Cement/R. 10W 15 ohms (K) | 35-16-72 | 1 | | |
| (2)-D8 | ED357794 | Zener Diode 05Z24U | 45-6-67 | 1 | (2)-R16 | ER301248 | Cement/R. 5W 10 ohms (K) | 35-16-71 | 2 | | |
| (2)-D9 | ED557447 | Zener Diode RD-5A(M) | 45-6-71 | 1 | (2)-R43 | ER622045 | Cement/R. (Metal ox. Film/T) 2W 330 ohms(K) | 35-16-11 | 1 | | |
| (2)-D10 | ED249581 | Silicon Diode 1S2473 | 45-3-28 | 1 | | | | | | | |
| (2)-D11 | ED249581 | 0.6A 200V (RED) | 45-2-74 | 2 | | | | | | | |
| (2)-D12 | ED224548 | Silicon Diode 10D2 | 45-2-14 | 3 | | | | | | | |
| (2)-D14 | ED560913 | Silicon Diode 1S2473VE to18 | 45-3-23 | 5 | | | | | | | |
| (2)-D19 | ED624903 | Silicon Diode 1S2473 | 45-3-28 | 1 | | | | | | | |
| (2)-D20 | ED560913 | Silicon Diode 1S2473VE 1024 | 45-3-23 | 5 | | | | | | | |
| (2)-D21B | ED624903 | Silicon Diode 1S2473 | 45-3-28 | 2 | | | | | | | |
| (2)-D23B | ED560913 | Silicon Diode 1S2473VE | 45-3-23 | 1 | | | | | | | |
| (2)-D25B | ED624903 | Silicon Diode 1S2473 | 45-3-28 | 1 | | | | | | | |
| (2)-D26 | ED624903 | Silicon Diode 1S2473 | 45-3-28 | 2 | | | | | | | |
| (2)-D27 | ED562397 | Germanium Diode 1S188FM-1 | 45-3-25 | 1 | | | | | | | |
| (2)-D28 | ED560913 | Silicon Diode 1S2473VE | 45-3-23 | 1 | | | | | | | |
| (2)-D29 | ED624903 | Silicon Diode 1S2473 | 45-3-28 | 1 | | | | | | | |
| (2)-D30 | ED560913 | Silicon Diode 1S2473VE | 45-3-23 | 2 | | | | | | | |
| (2)-D31 | ED560913 | Silicon Diode 1S2473 | 45-3-28 | 1 | | | | | | | |
| (2)-D32 | ED624903 | Silicon Diode 1S2473 | 45-3-28 | 1 | | | | | | | |
| (2)-D33 | ED560913 | Silicon Diode 1S2473VE | 45-3-23 | 2 | | | | | | | |
| (2)-D34 | ED624903 | Silicon Diode 1S2473 | 45-3-28 | 1 | | | | | | | |
| (2)-D35 | ED624903 | Silicon Diode 1S2473 | 45-3-28 | 1 | | | | | | | |
| (2)-D36 | ED560913 | Silicon Diode 1S2473VE 1038 | 45-3-25 | 3 | | | | | | | |
| (2)-D38 | ED624903 | Silicon Diode 1S2473 | 45-3-28 | 1 | | | | | | | |
| (2)-D39 | ED624903 | Silicon Diode 1S2473VE 1038 | 45-3-25 | 3 | | | | | | | |
| (3)-C1 | BA301276 | Mic Amp P.C Board Comp. GX-266D | 45-1-19 | 1 | | | | | | | |
| (3)-TR1 | ET391768 | Transistor 2SC1458L(G)(D) | 45-1-19 | 6 | | | | | | | |
| (3)-TR4 | ET603257 | Transistor 2SC1312S(G)(H) | 45-1-18 | 2 | | | | | | | |
| (3)-VR1 | EV301428 | Double axial 2 throw Vol. | | | | | | | | | |
| (3)-C4 | FC301430 | DM20R608 50 k Ω x2 | 35-18-4 | 1 | | | | | | | |
| (3)-C6 | EC301432 | Styrol/C. (w/rubber) 220PF(K) 50WV | 34-11-12 | 2 | | | | | | | |
| (3)-C7 | EC487394 | 2.2 μ F(1K) 16V VEM/C. 2.2 μ F(1K) 50WV | 34-19-2 | 2 | | | | | | | |

9. ILLUSTRATION OF POWER SUPPLY BLOCK

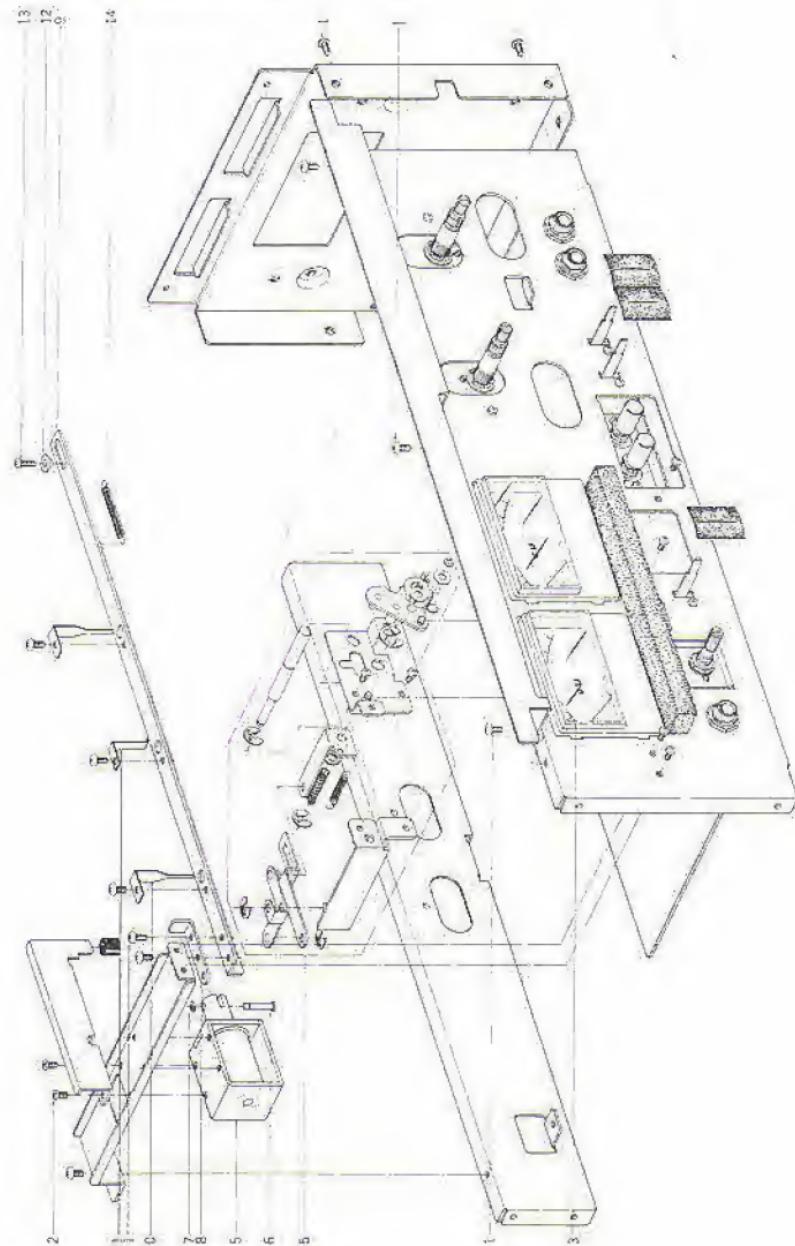


9) POWER SUPPLY BLOCK

| Ref. No. | Parts No. | Description | Statement No. | Q'ty | Ref. No. | Parts No.. | Description | Schematic No. | Q'ty |
|----------|-----------|-----------------------------|---------------|------|----------|------------|--|---------------|------|
| | | FUSE P.C BOARD BLOCK | | | 9-1x | EF563703 | △ Fuse 2A 250V | 29-1-50 | 1 |
| 9-1 | BA301326 | Fuse P.C Board Comp. | | | 9-12 | EC301412 | Elec. /C. 220μF 160WV | 24-19-120 | 2 |
| | | GX-266D (U/T) | NE-2735 | 1 | 9-13 | EC301251 | MPC/C. (Wrapping Type) | | |
| 9-2x | BA301336 | Fuse P.C Board Comp. | | | 9-14 | EC249593 | 3.5+1.5μF 150WV | 24-9-121 | 1 |
| | | GX-266D (JPN) | NE-2735 | 1 | 9-15 | ET621775 | MPC/C. 4+4μF 250WV | 24-9-116 | 1 |
| 9-3 | ZS325495 | Tapping Screw #2, 3x6 (BR) | | 14 | 9-16 | EZ209215 | Transistor TIP-47 | 45-1-166 | 1 |
| | | | | | 9-17 | ZS421806 | Insulator Bush B308D | 45-1-87 | 1 |
| | | | | | 9-18x | ZW516993 | Screw, pan head 3x8 | | |
| | | | | | 9-19 | EZ631943 | Nut M3, #1 | | |
| | | POWER SUPPLY BLOCK | | | 9-20x | EJ301250 | Strain Relief SR-4N-4 | 2-7-43 | 1 |
| 9-4 | EW374894 | △ AC Cord CUL 3M | 26-3-19 | 1 | | | 4P Fuse Holder (Large) B (Wrapping Type) (JPN) | 40-1-103 | 1 |
| 9-5x | EW524845 | △ AC Cord (J) 2.5M | 26-3-31 | 1 | | | Tapping Screw #2, 3x8 (BR) | | 2 |
| 9-6 | BT300964 | △ Power Trans. NET-2 | 38-4-502 | 1 | 9-21x | ZS447840 | | | |
| 9-7x | BT301295 | △ Power Trans. NET-1 | 38-4-503 | 1 | 9-22 | EJ539447 | Earth Terminal 2P T4460 | 32-1-32 | 1 |
| 9-8 | ZS424056 | Screw, pan head 4x10 | | 2 | 9-23 | EJ262732 | Socket (Volt. Selector) | 31-2-150 | 1 |
| 9-9 | ZW413267 | Flange Nut M4 | | 2 | 9-24 | EJ249467 | Voltage Selector MU | 42-1-106 | 1 |
| 9-10 | EF638807 | △ Fuse 1A 250V | 39-1-55 | 1 | 9-25x | EZ260381 | Mylar Sheet P103KA | 45-16-8 | 1 |

When ordering parts, please describe Parts Number, Description and Model Number in detail.

10. ILLUSTRATION OF AMP ASSEMBLY BLOCK

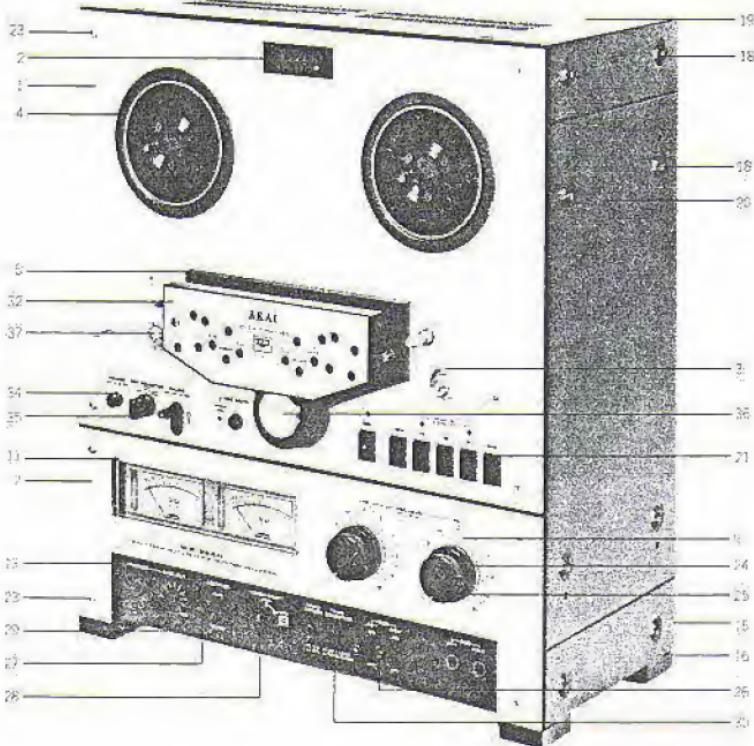


10) AMP ASSEMBLY BLOCK

| Ref. No. | Parts No. | Description | Schematic No. | Q'ty | Ref. No. | Parts No. | Description | Schematic No. | Q'ty |
|----------|-----------|----------------------------|---------------|------|----------|-----------|---------------------------------|---------------|------|
| 10-1 | ZS325495 | Tapping Screw #2, 3x6 (BR) | | 19 | 10-9. | ML301123 | Reverse Arm | NE-5238 | 1 |
| 10-2 | ZS422076 | Screw, pan head 3x6 | | 14 | 10-10. | ZG301072 | Reverse SW. Spring (A) | NE-5206 | 2 |
| 10-3 | EM301277 | VU Meter KL-250S-9 | 46-1-167 | 2 | 10-11. | ZG301073 | Reverse SW. Spring (B) | NE-5205 | 1 |
| 10-4x | ZW260370 | Nylon Rivet 3.4x5.5 | 2-7-56 | 2 | 10-12. | ZW625241 | Graduated Washer | MY-1013 | 1 |
| 10-5 | EP638695 | Plunger Solenoid 1240PHT | 46-1-73 | 1 | 10-13. | ZS447840 | Tapping Screw #2, 3x6 (BR) | | 1 |
| 10-6 | MH257477 | Connecting pin | RD-211 | 1 | 10-14. | ZG301089 | Reverse Arm Spring | NE-5226 | 1 |
| 10-7 | ZW270088 | 'E' Ring 1.9M | 6-1-9 | 1 | 10-15. | BZ301009 | Timer Block Comp. GX-266D | | 1 |
| 10-8 | M2301084 | Reverse Joint | NE-5219 | 1 | 10-16x | ZS558101 | Screw, pan head 3x6 w/washer | | 2 |

When ordering parts, please describe Parts Number, Description and Model Number in detail.

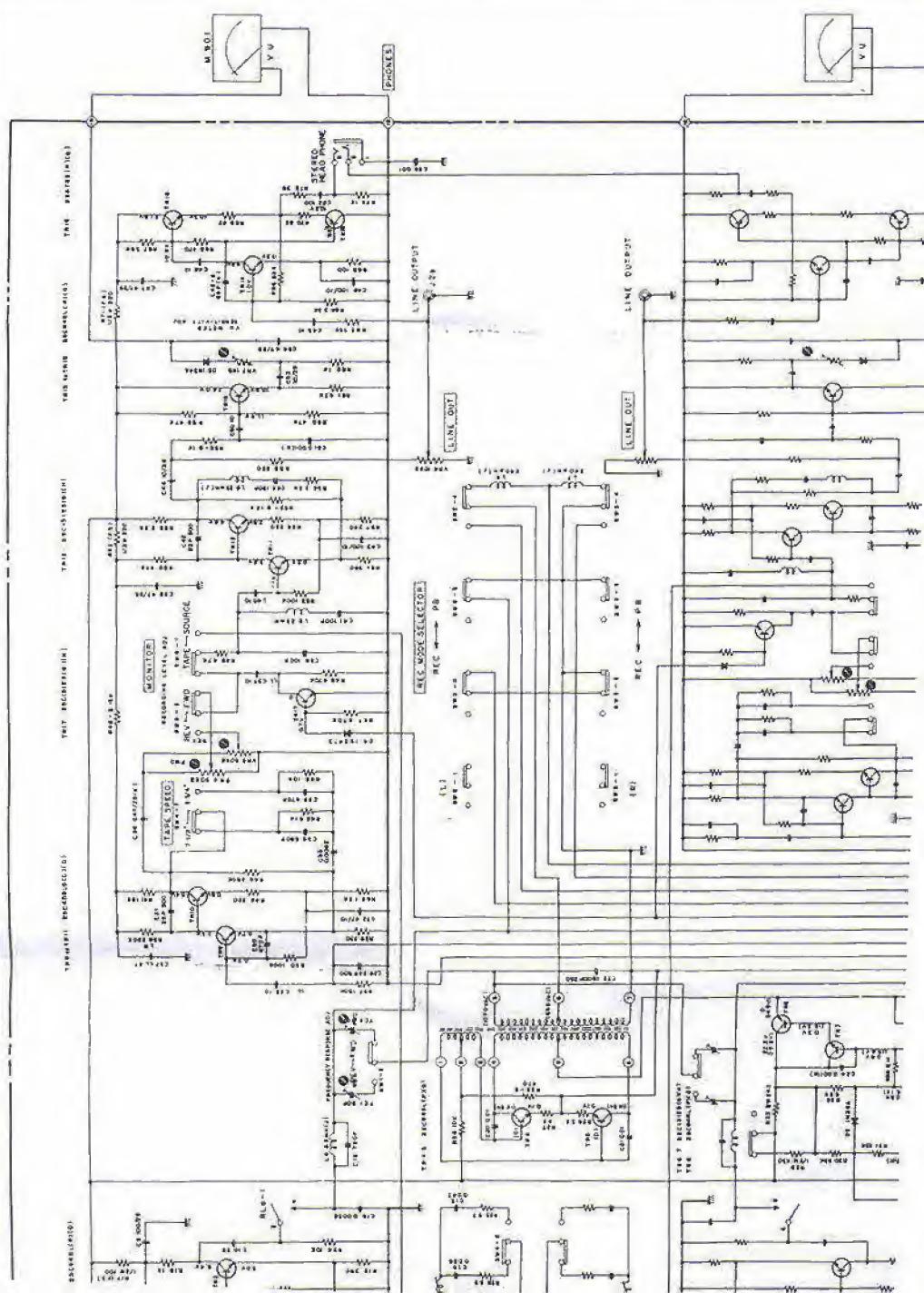
11. PHOTO OF FINAL ASSEMBLY BLOCK

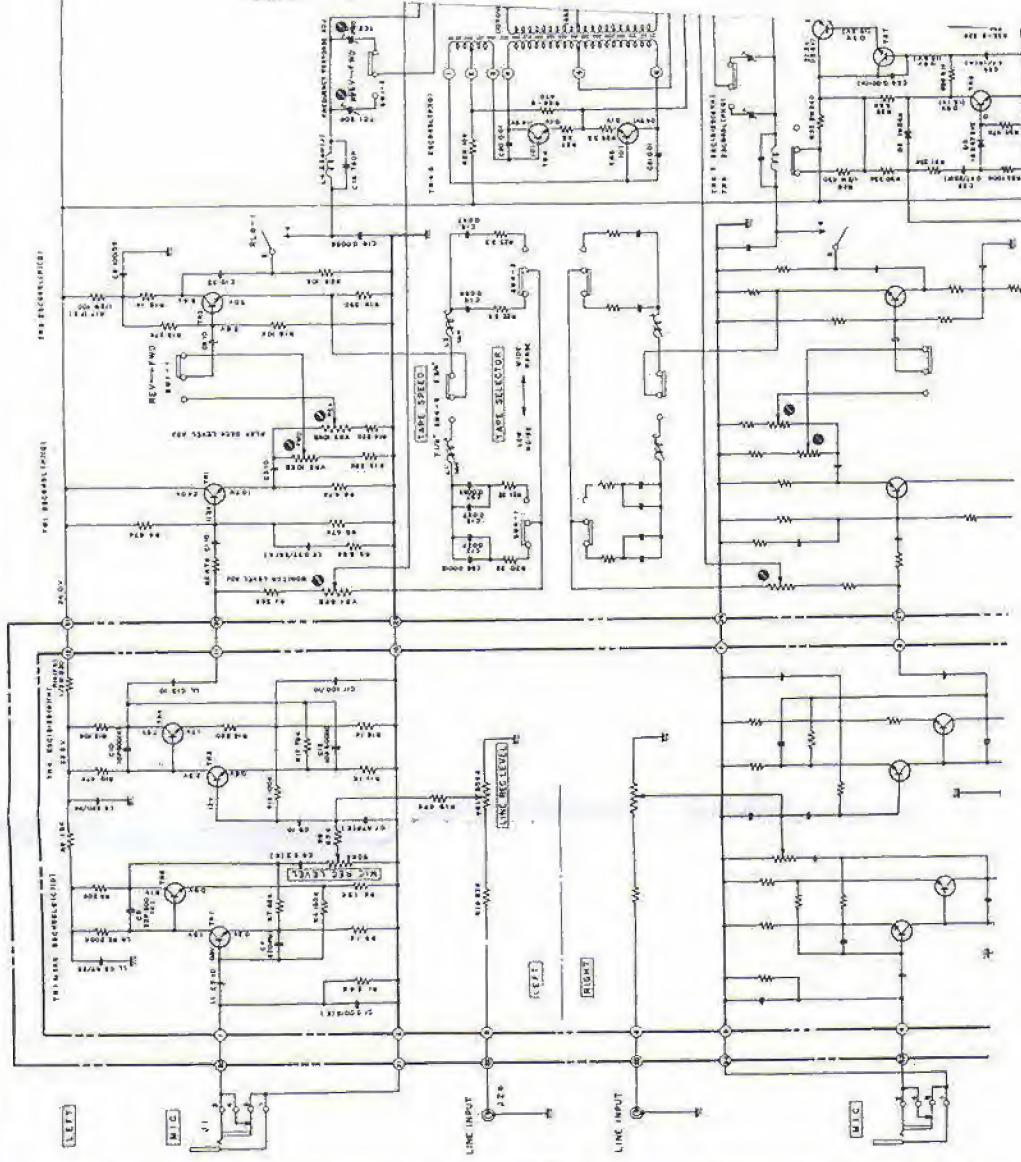


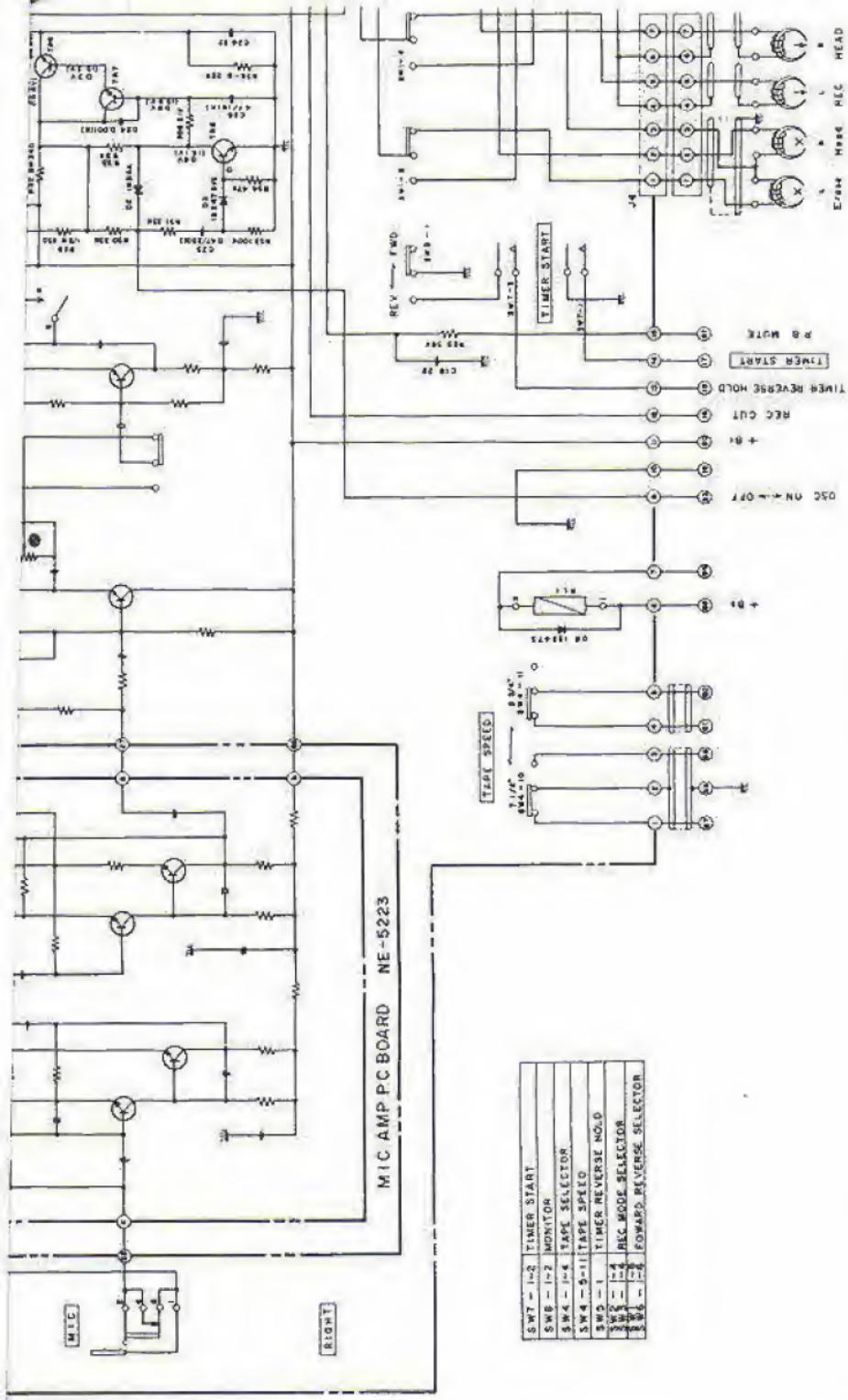
12. LIST OF INTERCHANGEABLE SEMICONDUCTORS

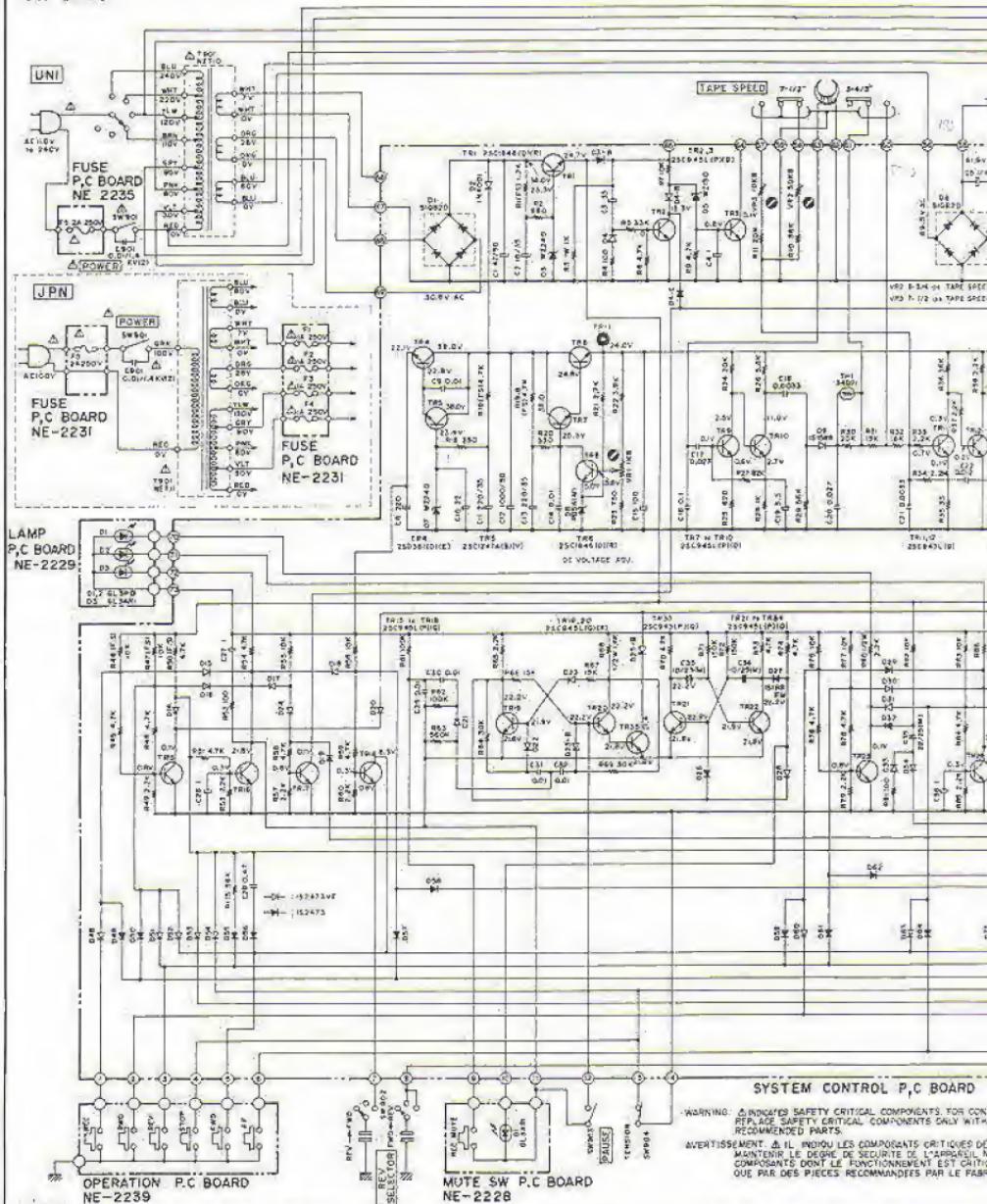
As far as service is concerned, in case the original parts cannot be obtained, the interchangeable parts listed below can be substituted.

| Original Parts | | | Interchangeable Parts | |
|----------------|-----------|---------------------|----------------------------------|----------------------|
| Description | Parts No. | Utilizing P.C Board | Description | Parts No. |
| 2SA564(Q)(R) | ET538154 | NE-1213 | 2SA733(Q)(R) | ET557965 |
| 2SA733(P)(Q) | ET554657 | NE-5222 | 2SA564(Q)(R) | ET538154 |
| 2SC458LG(C)(D) | ET391768 | NE-5223 NE-5222 | 2SC693U(F) 2SC1312(G)(H) | ET315472 ET517263 |
| 2SC945L(P)(Q) | ET639437 | NE-5222 NE-1213 | 2SC536(F)(G)(H) 2SC1647(S)(E) | ET632215 ET592424 |
| 2SC1247A(B)(V) | ET511920 | NE-1213 | 2SC1175(E)(F) 2SC1211(E)(F) | ET622080 ET666393 |
| 2SC1312S(G)(H) | ET603257 | NE-5222 | 2SC1312(G)(H) 2SC458LG(C)(D) | ET517263 ET391768 |
| 2SC1846(Q)(R) | ET301249 | NE-1213 | | |
| 2SD361(D)(E) | ET537300 | NE-1213 | 2SC1098(L)(M) | ET476886 |
| TIP-47 | ET621775 | | 2SC1683(P)(Q) | ET635826 |
| 1N34A | ED219464 | NE-5222 | 1S188AM 1N60 | ED562386 ED428264 |
| 1S2473 | ED624903 | NE-1213 | 1S1588 WG599 | ED557447 ED514721 |
| 1S2473VE | ED560913 | NE-1213 NE-5222 | 1S1588 WG599 | ED557447 ED514721 |
| 1S1588 | ED557447 | NE-1213 | 1S2473 WG599 | ED624903 ED514721 |
| WZ-240 | ED521918 | NE-1213 | RD24A | ED229072 |
| WZ-130 | ED539976 | NE-1213 | | |
| 10D2 | ED224548 | NE-1213 | 1N4003 | ED570295 |





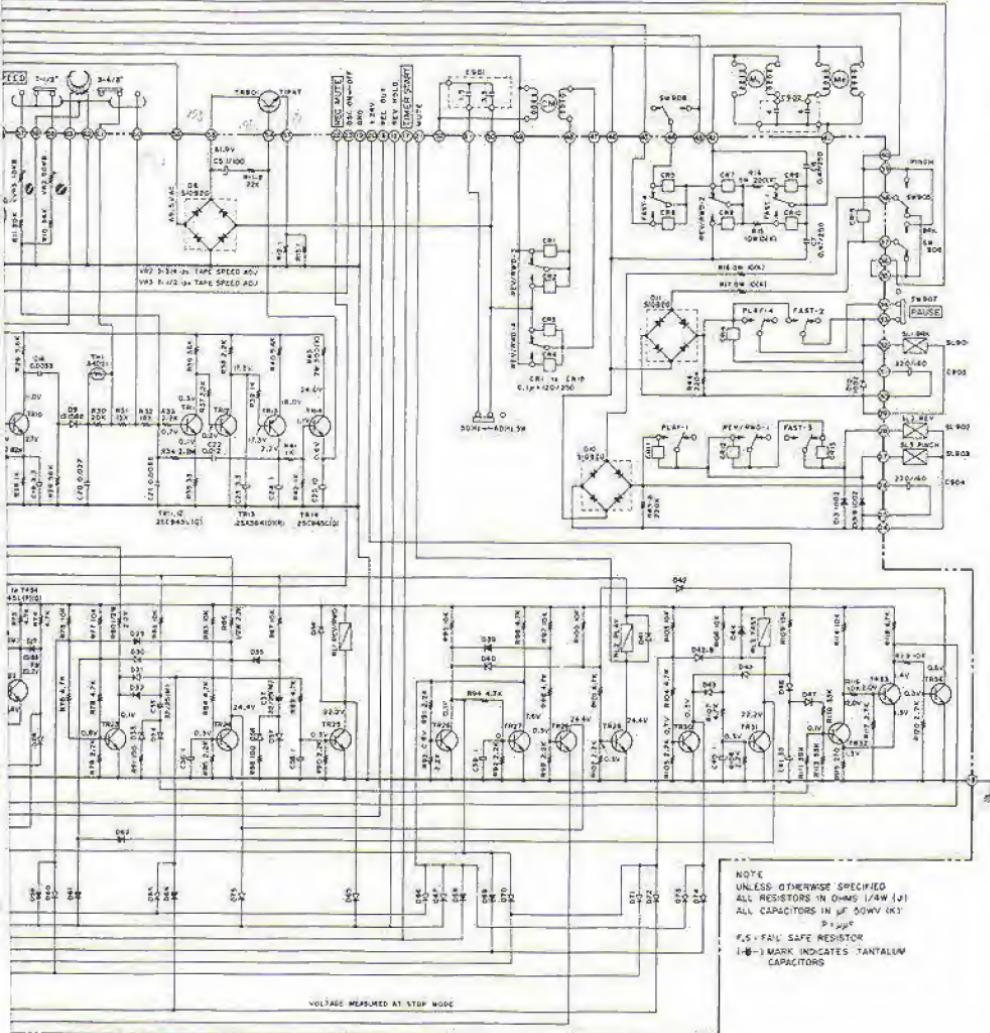




SYSTEM CONTROL P.C. BOARD

**WARNING: & INDICATES SAFETY CRITICAL COMPONENTS. FOR CON-
RPLACE SAFETY CRITICAL COMPONENTS ONLY WITH
RECOMMENDED PARTS.**

**AVERTISSEMENT. A TOUT INDIVIDU LES COMPOSANTS CRITIQUES DE
MAINTIEN LE DEGRE DE SECURITE DE L'APPAREIL. NE
COMPOSANTS DONT LE FONCTIONNEMENT EST CHA
QUE PAR DES PIECES RECOMMANDÉES PAR LE FAB**



SYSTEM CONTROL P/C BOARD NE-1213

IDENTIFIES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY
RECOMMENDED PARTS
RECOMMENDED PARTS

IT & I INDUIRE LES COMPOSANTS CRITIQUES DE SÉCURITÉ POUR
DÉFINIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL. NE REMPLACER LES
COMPOSANTS CRITIQUES SI LE FONCTIONNEMENT EST CRITIQUE POUR LA SÉCURITÉ
PAR DES PIÈCES RECOMMANDÉES PAR LE FABRICANT.



250361

25C945L

25C1846

E.C.B.

**GX-266D MECHA
SCHEMATIC DIAGRAM**

NO. 2-2 1541455A